





Features

- 80 t (90 USt) capacity
- 12 m 47 m (39.2 ft 154.3 ft) five-section full-power boom
- 10 m 17 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 GRT8090

The GRT8090 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

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.





> Boom

Lifting performance is enhanced by the 12 m - 47 m (39.2 ft – 154.3 ft) five-section, full-power MEGAFORMTM boom with sequenced, synchronized extension capability. The boom system offers three operational modes of extension and retraction and one mode specifically for maintenance.



> CraneSTXR®

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.

GRT8090 benefits

- > Higher nominal capacity and stronger load charts ensure higher rental rates.
- > Outstanding height and reach provide higher utilization and greater versatility.
- ➤ The GRT8090 transports to the job site quickly and efficiently with a weight under 42 323 kg (93,306 lb) after removal of counterweight and boom extension.
- Counterweight is hydraulically self-removable and installed by the crane.
- Three operator selectable telescoping modes for flexibility in any application.
- **ECO** mode for intelligent power management and decreased fuel consumption.





















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.

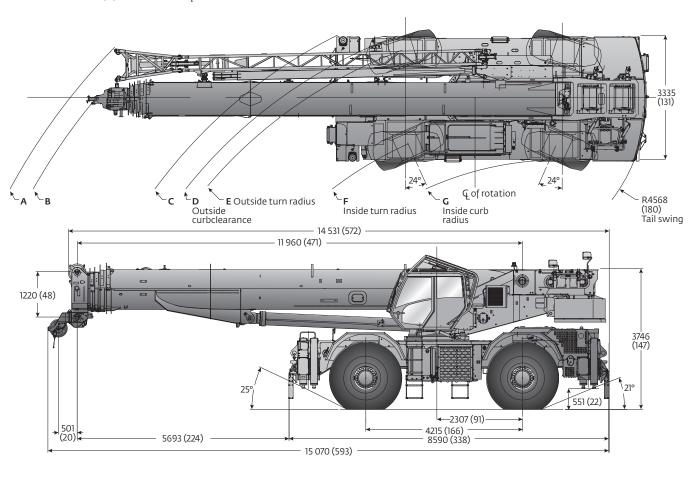
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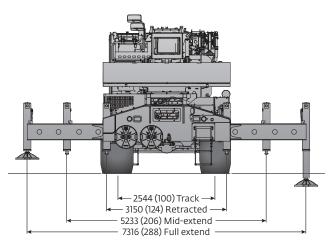
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Dimensions

Tire Si	ze: 29.5	x 25											
Α	В	С	D	E	F	G	Α	В	С	D	E	F	G
16,3 m (53' 6")	16,8 m (55'1")	13,6 m (44'7")	12,5 m (41' 0")	8,8 m (28'10")	11,8 m (38' 9")	12,2 m (40' 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 S	teer					Fou	r-Wheel S	teer		

Dimensions in mm (in) unless otherwise specified.



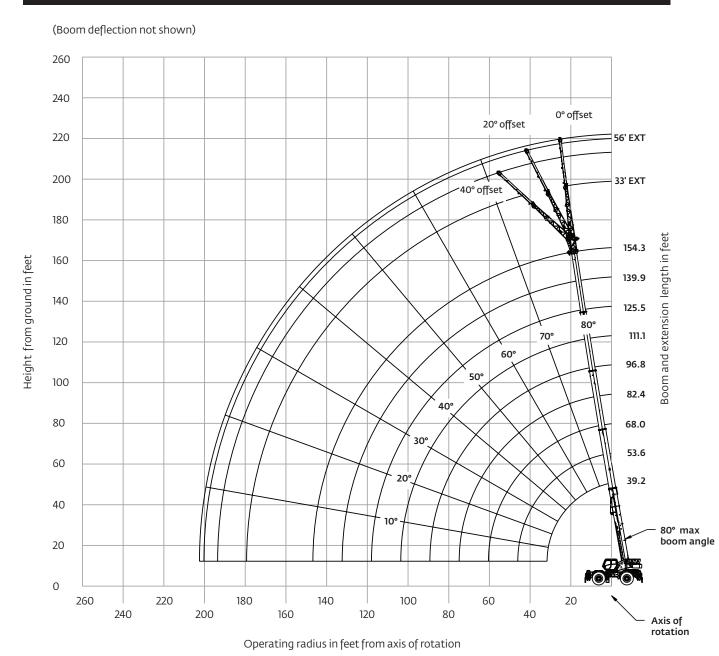


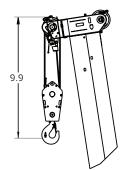
Weights

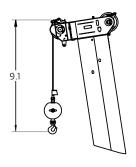
Weights						Rear		
		G۱	/W	Fro	ont	Re	ar	
		kg	lb	kg	lb	kg	lb	
Basic Machine (T4F): including 47 m (15- boom, main and auxiliary hoist with 214 of rope, manual offsettable bi-fold swing 9980 kg (22,000 lb) counterweight, 10,8 headache ball, and 81,6 t (90 USt) hook b	m (702 ft) jaway, t (12 USt)	53 507	117,961	28 038	61,813	25 468	56,148	
Add: 2268 kg (5000 lb) heavy counterwo	eight	2255	4971	-827	-1824	3082	6795	
	crane weight	55 762	122,932	27 211	59,989	28 550	62,943	
Remove: 9980 kg (22,000 lb) counterw (manual offsettable S/A)	eight	-10 000	-22,046	3735	8234	-13 735	-30,280	
	crane weight	43 507	95,915	31 773	70,047	11 734	25,868	
Remove: 12 247 kg (27,000 lb) counterw (manual offsettable S/A)	veight .	-12 255	-27,017	4562	10,058	-16 817	-37,075	
	crane weight	43 507	95,915	31773	70,047	11734	25,868	
Remove: manual bi-fold extension		-1183	-2609	-1848	-4075	665	1466	
	crane weight	42 324	93,306	29 925	65,972	12 399	27,334	
Basic unit as noted above SUB: Hydraulic offsettable bi-fold swin	ıgaway	53 826	118,663	28 525	62,885	25 301	55,778	
Basic unit with heavy counterweight Hydraulic offsettable bi-fold swingawa	Ny	56 080	123,634	27 697	61,060	28 384	62,574	
Remove: 9980 kg (22,000 lb) counterw (Hydraulic offsettable S/A)	veight .	-10 000	-22,046	3735	8234	-13 735	-30,280	
	crane weight	43 825	96,617	32 260	71,119	11 566	25,498	
Remove: 12 247 kg (27,000 lb) counterw (Hydraulic offsettable S/A)	veight	-12 255	-27,017	4562	10,058	-16 817	-37,075	
	crane weight	43 825	96,617	32 260	71,118	11 566	25,499	
Remove: Hydraulic bi-fold extension		-1341	-2956	-2123	-4680	782	1724	
	crane weight	42 485	93,661	30 136	66,438	12 348	27,223	

Working range

Working range diagram with bi-fold extension







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











Radius					Main bo	om leng	th in fee	t					
in feet	39.2	53.6	53.6	68.0	68.0	68.0	82.4	82.4	82.4	96.8	96.8	96.8	
Tele I Tele II Tele III Tele IV	0% 0% 0% 0%	0% 17% 17% 17%	50% 0% 0% 0%	0% 33% 33% 33%	50% 17% 17% 17%	100% 0% 0% 0%	0% 50% 50% 50%	50% 33% 33% 33%	100% 17% 17% 17%	0% 67% 67% 67%	50% 50% 50% 50%	100% 33% 33% 33%	
Mode	A,X,B	Α	X,B	Α	Х	В	Α	Х	В	Α	Х	В	
8	180,000 (72.5)												
9	180,000 (71)												
10	177,000 (69)	(75.5)	136,500 (75.5)	(78.5)	55,500 (78.5)	(79)	(80)	*55,500 (80)	*55,450 (80)				
12	158,500 (66)	(73)	(73)	(77)	55,500 (77)	97,600 (77)	55,500 (79.5)	55,500 (79.5)	55,450 (79.5)				
15	135,500 (61)	(69.5)	134,500 (69.5)	55,550 (74)	55,500 (74)	93,750 (74.5)	55,500 (77)	55,500 (77)	55,450 (77.5)	37,850 (79.5)	55,500 (79.5)	55,450 (79.5)	
20	103,000 (51.5)	(63.5)	102,000 (63.5)	(69.5)	55,500 (69.5)	76,300 (70)	55,500 (73.5)	55,500 (73.5)	55,450 (74)	37,850 (76.5)	55,500 (76.5)	55,450 (76.5) 54,200	
25	(40) (57) (57) (65) (65) (65) (70) (69.5) (70) (73.5) (73.5)												
30	59,750 56,100 55,250 55,550 55,500 53,800 55,500 55,500 49,150 37,850 55,500 49,150 37,850 55,500 49,150 37,850 70) 70) 70) 70) 70) 70) 70) 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70												
35		46,000 (42)	(42)	46,950 (55)	43,900 (55)	43,500 (55)	47,750 (62)	45,800 (62)	42,300 (62.5)	34,400 (67)	47,850 (67)	39,750 (67)	
40		35,800 (32.5)	32,650 (32)	37,200 (49.5)	34,700 (49)	33,200 (49.5)	38,200 (58)	36,100 (58)	34,300 (58.5)	30,550 (63.5)	38,100 (63.5)	34,600 (64)	
45		28,650 (16.5)	25,000 (16.5)	30,350 (43.5)	28,200 (43)	25,950 (43.5)	31,450 (53.5)	29,300 (53.5)	27,150 (54)	27,350 (60)	30,900 (60)	28,250 (60.5)	
50				25,100 (36)	22,600 (36)	20,450 (36)	26,450 (49)	24,200 (48.5)	21,800 (49.5)	24,750 (56.5)	25,550 (56.5)	22,950 (57)	
55				21,050 (27)	18,200 (27)	16,200 (27)	22,600 (44)	20,300 (43.5)	17,650 (44)	22,500 (53)	21,450 (53)	18,850 (53)	
60				17,800 (11)	14,700 (10.5)	12,800 (11)	19,500 (38.5)	17,150 (38)	14,300 (38.5)	19,950 (49)	18,150 (49)	15,550 (49)	
65							16,900 (31.5)	14,550 (31.5)	11,550 (32)	17,350 (45)	15,400 (44.5)	12,900 (45)	
70							14,550 (23)	12,350 (23)	9280 (23.5)	15,100 (40)	13,150 (40)	10,700 (40)	
75										13,200 (35)	11,250 (34.5)	8770 (35)	
80										11,500 (28.5)	9570 (28.5)	7120 (28.5)	
												5690 (20.5)	
												0	
	m boom le							X				125.5	
Maximum boom length (ft) at 0° boom angle (no load) - Mode B *This capacity is based on maximum boom angle											111.1		

*This capacity is based on maximum boom angle NOTE: For allowable capacities while operating in 3-second wind gust speeds greater than 30 mph and up to 45 mph, refer to Capacity Reduction Factors for wind speed (3-second gust speed) V(z) greater than 30 mph.

Boom	Lifting capacities at 0° boom angle											
angle	39.2	53.6	53.6	68.0	68.0	68.0	82.4	82.4	82.4	96.8	96.8	96.8
0°	28,350 (31.7)	18,300 (46.1)	16,000 (46.1)	13,100 (60.5)	10,600 (60.5)		9240 (74.8)	7240 (74.8)	5390 (74.8)	6590 (89.2)	4920 (89.2)	3380 (89.2)

NOTE: () Reference radii in feet.

Shaded area indicates optimal lift capacity within boom length sections.

80093667-1









39.2 ft - 154.3 ft 22,000 lb

100%



Pounds

Radiu <u>s</u>					Main b	oom len	gth in fe	et					
in feet	111.1	111.1	111.1										
Tele I Tele II Tele III Tele IV	0% 83% 83% 83%	50% 67% 67% 67%	100% 50% 50% 50%	0% 100% 100% 100%	50% 83% 83% 83%	100% 67% 67% 67%	50% 100% 100% 100%	100% 83% 83% 83%	100% 100% 100% 100%				
Mode	Α	Х	В	Α	Х	В	A,X	В	A,X,E				
15	*26,350 (80)	*37,750 (80)	*54,500 (80)										
20	26,350 (78.5)	37,750 (78.5)	54,500 (78.5)	21,650 (80)	26,300 (80)	*37,700 (80)	*21,600 (80)	*26,250 (80)					
25	26,350 (76)	37,750 (76)	50,600 (76)	21,650 (78)	26,300 (78)	37,700 (78)	21,600 (79.5)	26,250 (79.5)	*21,550 (80)				
30	26,350 (73)	37,750 (73.5)	43,800 (73.5)	21,650 (75.5)	26,300 (75.5)	37,700 (75.5)	21,600 (77.5)	26,250 (77.5)	21,550 (79)				
35	26,350 (70.5)	37,750 (70.5)	37,950 (70.5)	21,650 (73)	26,300 (73)	36,300 (73)	21,600 (75)	26,250 (75.5)	21,550 (77)				
40	26,350 (67.5)	34,300 (68)	33,050 (67.5)	21,650 (70.5)	26,300 (70.5)	31,900 (70.5)	21,600 (73)	26,250 (73)	21,550 (75)				
45													
50	22,000 (62)	26,900 (62)	24,050 (62)	20,050 (65.5)	24,550 (65.5)	24,650 (66)	21,600 (68.5)	24,200 (69)	21,550 (71)				
55	10 000 22 550 20 000 18 100 22 250 20 550 20 050 21 150												
60	18,150 (56)	19,100 (56)	16,750 (56)	16,450 (60.5)	19,300 (60.5)	17,300 (60.5)	18,300 (64)	17,900 (64.5)	18,50				
65	16,600 (52.5)	16,300 (52.5)	14,100 (52.5)	15,000 (58)	16,550 (58)	14,700 (58)	16,750 (62)	15,250 (62)	15,850 (65.5				
70	15,250 (49)	13,950 (49)	11,900 (49)	13,700 (55)	14,300 (55)	12,500 (55)	14,600 (59.5)	13,100 (59.5)	13,650				
75	13,650 (45.5)	12,000 (45.5)	10,050 (45.5)	12,600 (52)	12,350 (52)	10,650 (52)	12,700 (57)	11,250 (57.5)	11,800				
80	12,000 (41.5)	10,300 (41.5)	8470 (41.5)	11,600 (49)	10,700 (49)	9080 (49)	11,100 (54.5)	9670 (54.5)	10,250				
85	10,550 (37)	8810 (37)	7060 (37)	10,700 (46)	9310 (45.5)	7710 (46)	9750 (52)	8300 (52)	8890 (56.5				
90	9340 (32)	7510 (32)	5820 (32)	9760 (42.5)	8060 (42)	6510 (42.5)	8540 (49)	7110 (49.5)	7700 (54.5				
95	8190 (26)	6350 (26)	4730 (26)	8650 (38.5)	6940 (38.5)	5430 (38.5)	7470 (46)	6060 (46.5)	6640 (52)				
100	7150 (18)	5330 (18)	3750 (18)	7670 (34.5)	5940 (34.5)	4460 (34.5)	6520 (43)	5120 (43.5)	5710 (49.5				
105				6800 (29.5)	5040 (29.5)	3600 (29.5)	5650 (39.5)	4260 (40)	4880 (47)				
110				6010 (24)	4240 (24)	2830 (24)	4860 (36)	3490 (36.5)	4130 (44)				
115				5300 (16)	3510 (16)	2120 (16)	4150 (32)	2790 (32.5)	3430 (41)				
120							3510 (27.5)	2150 (28)	2800 (38)				
125							2900 (22)	1550 (22)	2220 (34.5				
130 2340 1000 (14) (14)													
135													
Minimum						15	13	13	25				
/Jaximum									125.5				
Maximum This capa						d) - Mode	e B		111.1				

NOTE: For allowable capacities while operating in 3-second wind gust speeds greater than 30 mph and up to 45 mph, refer to Capacity Reduction Factors for wind speed (3-second gust speed) V(z) greater than 30 mph.

Boom					Lifting o	apaciti	es at 0°	boom ar	ngle
angle	111.1	111.1	111.1	125.5	125.5	125.5	139.9	139.9	154.3
0°	4680 (103.6)	3230 (103.6)	1910 (103.6)	3230 (118)	1950 (118)				

NOTE: () Reference radii in feet. 80093667-2 Shaded area indicates optimal lift capacity within boom length sections.

(Mode X)







		33 ft length			56 ft length					
Feet	0° offset	20° offset	40° offset	0° offset	20° offset	40° offset				
30	*13,900 (80)	_	_	_	_	_				
35	13,900 (79.5)	_	_	*7960 (80)	_	_				
40	13,900 (78)	*13,600 (80)	_	7960 (79)	_	_				
45	13,900 (76.5)	13,600 (79.5)	_	7960 (78)	_	_				
50	13,900 (75)	13,600 (78)	11,750 (80)	7960 (76.5)	_	_				
55	13,900 (73.5)	13,600 (76.5)	11,600 (78.5)	7960 (75.5)	6700 (80)	_				
60	13,900 (72)	13,550 (75)	11,450 (76.5)	7960 (74)	6450 (79)	_				
65	13,900 (70.5)	13,300 (73)	11,300 (75)	7960 (72.5)	6240 (77.5)	*5000 (80)				
70	13,900 (69)	13,000 (71.5)	11,150 (73.5)	7600 (71.5)	6040 (76)	5000 (79.5)				
75	12,100 (67.5)	12,750 (70)	11,050 (71.5)	7190 (70)	5850 (74.5)	4900 (78)				
80	10,500 (66)	11,500 (68.5)	10,950 (70)	6780 (68.5)	5660 (73)	4810 (76.5)				
85	9150 (64.5)	10,050 (66.5)	10,750 (68)	6450 (67.5)	5500 (72)	4730 (74.5)				
90	7930 (62.5)	8750 (64.5)	9370 (66.5)	6120 (66)	5350 (70.5)	4650 (73)				
95	6870 (60.5)	7600 (63)	8170 (64.5)	5860 (64.5)	5200 (69)	4580 (71.5)				
100	5920 (58.5)	6580 (61)	7100 (62.5)	5600 (63)	5050 (67.5)	4510 (69.5)				
105	5070 (56.5)	5670 (58.5)	6140 (60.5)	5360 (61.5)	4920 (66)	4450 (68)				
110	4310 (54.5)	4860 (56.5)	5280 (58)	4900 (60)	4800 (64)	4390 (66)				
115	3620 (52.5)	4120 (54.5)	4500 (56)	4220 (58.5)	4690 (62.5)	4340 (64.5)				
120	3000 (50)	3450 (52.5)	3800 (53.5)	3610 (56.5)	4580 (60.5)	4290 (62.5)				
125	2430 (48)	2830 (50)	3150 (51)	3050 (54.5)	3950 (59)	4240 (61)				
130	1910 (45.5)	2270 (47.5)	2560 (48.5)	2530 (52.5)	3370 (57)	3940 (59)				
135	1430 (43.5)	1760 (45)	2020 (46)	2060 (50.5)	2850 (55)	3340 (57)				
140	_	1280 (43)	1520 (43.5)	1630 (48.5)	2360 (52.5)	2790 (55)				
145	_	_	1060 (40.5)	1220 (46.5)	1900 (50.5)	2280 (53)				
150	_	_	_	_	1480 (48.5)	1800 (50.5)				
155	_	_	_	_	1090 (46.5)	1360 (48)				
Min. boom angle for indicated length (no load)	41°	40°	39°	45°	45°	46°				
Max. boom length at 0° boom angle (no load)		97 ft			97 ft					

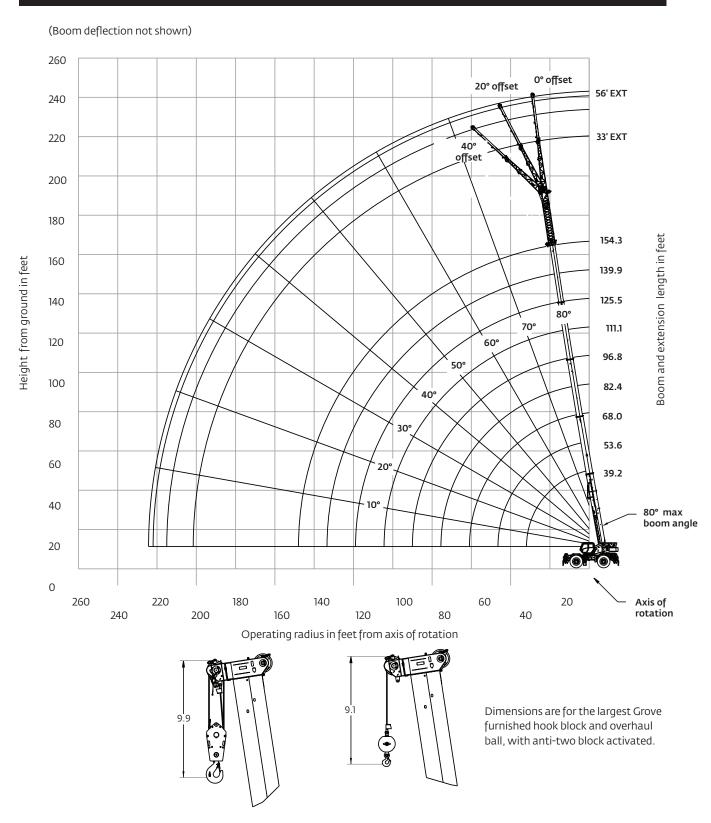
- 1. 33 ft and 56 ft folding boom extension lengths may be used for single line lifting service only.
- 2. For main boom lengths less than 154.3 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column that corresponds to the boom extension length and offset 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 33 ft or 56 ft extension erected, the outriggers must be fully extended.

NOTE: () Boom angles are in degrees.

^{*}This capacity is based on maximum obtainable boom angle.

Working range

Working range diagram with bi-fold extension and insert



(Mode X)



Θ		Pounds	
	76 ft leng	th (56 ft ext + 20	ft insert)
Feet	0° offset	20° offset	40° offset
40	*6190 (80)	_	_
45	6190 (79.5)	_	-
50	6190 (78.5)	_	_
55	6190 (77.5)	_	_
60	6190 (76)	*6000 (80)	_
65	6190 (75)	6000 (79.5)	_
70	6190 (74)	5940 (78)	_
75	6190	5760	4800
	(72.5)	(77)	(80)
80	6190	5580	4800
	(71.5)	(75.5)	(78.5)
85	6190	5420	4800
	(70)	(74.5)	(77.5)
90	6190	5260	4740
	(69)	(73)	(76)
95	6190	5130	4670
	(68)	(72)	(74.5)
100	6090	5000	4610
	(66.5)	(70.5)	(73)
105	5830	4880	4540
	(65)	(69.5)	(71.5)
110	5100	4760	4480
	(64)	(68)	(70.5)
115	4440	4650	4430
	(62.5)	(66.5)	(69)
120	3840	4540	4380
	(61)	(65)	(67.5)
125	3290	4150	4330
	(59.5)	(63.5)	(66)
130	2780	3580	4220
	(58)	(61.5)	(64)
135	2320	3060	3630
	(56)	(60)	(62.5)
140	1900	2570	3080
	(54.5)	(58)	(60.5)
145	1500	2130	2580
	(52.5)	(56)	(58.5)
150	1140	1710	2110
	(51)	(54.5)	(56.5)
155	_	1320 (52.5)	1680 (54.5)
160	_	_	1270 (52.5)
Min. boom angle for indicated length (no load)	50°	51°	51°
Max. boom length at 0° boom angle (no load)		82 ft	

- 1. The 56 ft folding boom extension length may be used for single line lifting service only.
- 2. For main boom lengths less than 154.3 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column that 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.
- 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 obtainable boom angle.













Radius					Mair	boom l	ength in	feet					
in feet	39.2	53.6	53.6	68.0	68.0	68.0	82.4	82.4	82.4	96.8	96.8	96.8	
Tele I Tele II Tele III Tele IV	0% 0% 0% 0%	0% 17% 17% 17%	50% 0% 0% 0%	0% 33% 33% 33%	50% 17% 17% 17%	100% 0% 0% 0%	0% 50% 50% 50%	50% 33% 33% 33%	100% 17% 17% 17%	0% 67% 67% 67%	50% 50% 50% 50%	100% 33% 33% 33%	
Mode	A,X,B	Α	X,B	Α	Х	В	Α	Х	В	Α	Х	В	
8	180,000 (72.5)												
9	180,000												
10	178,000 (69)	(75.5)	136,500 (75.5)	(78.5)	55,500 (78.5)	97,600 (79)	(80)	*55,500 (80)	(80)				
12	159,500 (66)	(73)	136,500 (73)	(77)	55,500 (77)	97,600 (77)	55,500 (79.5)	55,500 (79.5)	55,450 (79.5)				
15	137,500 (61)	(69.5)	136,500 (69.5)	(74)	55,500 (74)	93,750 (74.5)	55,500 (77)	55,500 (77)	55,450 (77.5)	37,850 (79.5)	55,500 (79.5)	55,450 (79.5)	
20	106,000 (51.5)	(63.5)	105,000 (63.5)	(69.5)	55,500 (69.5)	76,300 (70)	55,500 (73.5)	55,500 (73.5)	55,450 (74)	37,850 (76.5)	55,500 (76.5)	55,450 (76.5) 54,200	
25	(40) (57) (57) (65) (65) (65) (70) (69.5) (70) (73.5) (73.5)												
30	(23.5) (50) (50) (60) (60) (60.5) (66) (66) (66.5) (70) (70)										46,150 (70.5)		
35		50,250 (42)	46,150 (42)	51,200 (55)	48,150 (55)	46,350 (55)	49,350 (62)	50,050 (62)	42,300 (62.5)	34,400 (67)	52,100 (67)	39,750 (67)	
40		39,300 (32.5)	36,350 (32)	40,750 (49.5)	38,200 (49)	36,700 (49.5)	41,700 (58)	39,600 (58)	36,850 (58.5)	30,550 (63.5)	41,650 (63.5)	34,600 (64)	
45		31,600 (16.5)	28,150 (16.5)	33,350 (43.5)	31,200 (43)	28,950 (43.5)	34,450 (53.5)	32,300 (53.5)	30,100 (54)	27,350 (60)	33,900 (60)	30,400 (60.5)	
50				27,700 (36)	25,350 (36)	23,050 (36)	29,050 (49)	26,850 (48.5)	24,400 (49.5)	24,750 (56.5)	28,200 (56.5)	25,550 (57)	
55				23,350 (27)	20,600 (27)	18,500 (27)	24,900 (44)	22,650 (43.5)	19,950 (44)	22,500 (53)	23,750 (53)	21,150 (53)	
60				19,850 (11)	16,850 (10.5)	14,850 (11)	21,550 (38.5)	19,250 (38)	16,400 (38.5)	20,600 (49)	20,250 (49)	17,650 (49)	
65							18,750 (31.5)	16,400 (31.5)	13,450 (32)	18,900 (45)	17,250 (44.5)	14,800 (45)	
70							16,350 (23)	14,100 (23)	11,000 (23.5)	16,850 (40)	14,900 (40)	12,400 (40)	
75	14.750 12.850 10												
80										13,000 (28.5)	11,100 (28.5)	8590 (28.5)	
85 (20.5) (20)												7070 (20.5)	
	n boom a											0	
											125.5		
ıvıaxımu	ווו Doom le	ength (ft)		om angl	е (по юа	u) - Mod	ев					111.1	

NOTE: For allowable capacities while operating in 3-second wind gust speeds greater than 30 mph and up to 45 mph, refer to Capacity Reduction Factors for wind speed (3-second gust speed) V(z) greater than 30 mph.

Boom		Lifting capacities at 0° boom angle													
angle	39.2	53.6	53.6	68.0	68.0	68.0	82.4	82.4	82.4	96.8	96.8	96.8			
0°	28,350 (31.7)	18,300 (46.1)	16,000 (46.1)	13,100 (60.5)	10,600 (60.5)	8410 (60.5)	9240 (74.8)	7240 (74.8)	5390 (74.8)	6590 (89.2)	4920 (89.2)	3380 (89.2)			

NOTE: () Reference radii in feet.

80093666-1

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









27,000 lb



Tele 1 83	D-di				Main bo	om lena	th in fee	+					
Tebe 1		111.1	111.1						139.9	154.3			
15	Tele II Tele III Tele IV	83% 83% 83%	50% 67% 67% 67%	50% 50% 50%	0% 100% 100% 100%	50% 83% 83% 83%	67% 67% 67%	50% 100% 100% 100%	100% 83% 83% 83%	100% 100% 100% 100%			
15	Mode				Α	Х	В	A,X	В	A,X,B			
20	15	(80)	(80)	(80)									
25	20												
30	25									*21,550 (80)			
35	30									21,550 (79)			
40 (67.5) (68) (67.5) (70.5) (70.5) (70.5) (73) (73) (73) (73 45 (24,400) 30,950 29,100 21,650 (88) (68) (68) (70) 21,600 21,500 50 (22,000 28,100 25,750 20,050 24,550 (66) (68.5) (69) (77) 50 (62) (62) (62) (62) (65.5) (65.5) (65.5) (66) (68.5) (69) (77) 55 (99) (59) (59) (63) (63) (63) (63) (63.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5	35									21,550 (77)			
45 (65) (65) (65) (66) (68) (68) (68) (7) (7) (7) (73 50 (22,000) 28,100 25,750 20,050 24,550 24,900 21,600 24,200 21,510 55 19,900 24,850 22,300 18,100 22,350 (63) (66) (68,5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5) (66.5	40									21,550 (75)			
Section George	45									21,550 (73)			
Solution	50		28,100 (62)			24,550 (65.5)				21,550 (71)			
60	55		24,850 (59)			22,350 (63)				21,150 (69)			
65 16,600 18,150 15,950 15,000 18,450 16,550 16,750 17,150 17,000 (62) (63) (62) (62) (62) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63) (63)	60		21,200		16,450					18,950 (67.5)			
70	(56) (56) (56) (56) (60.5) (60.5) (60.5) (64) (64.5)												
75	70	15,250	15,700	13,600	13,700	16,000	14,200	15,400	14,800	15,350 (63.5)			
80	75	14,050	13,600	11,650	12,600	13,950	12,200	14,250	12,800	13,400 (61)			
85 11,950 10,150 8430 10,700 10,655 9080 11,100 9670 10,20 (56. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59. 59.	80	13,000	11,750	9940	11,600	12,200	10,550	12,600	11,100	11,700			
90	85	11,950	10,150	8430	10,700	10,650	9080	11,100	9670	10,250 (56.5)			
95 9440 7560 5930 9150 8140 6630 8680 7260 785 (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5) (46.5)	90	10,600	8790	7110	9890	9350	7800	9820	8390	8980 (54.5)			
100	95	9440	7560	5930	9150	8140	6630	8680	7260	7850			
105	100	8340	6460	4890	8480	7080	5600	7660	6260	6850			
10	105	(10)	(10)	(10)	7870	6120	4680	6730	5340	5960			
115	110				7030	5260	3850	5890	4510	5160			
120	115				6270	4490	3100	5130	3760	4410			
125 3810 (22) (22) (34. (34. (34. (34. (14) (34. (34. (14) (34. (34. (14) (34. (34. (34. (34. (14) (34. (34. (34. (34. (34. (34. (34. (34.	120				(10)	(10)	(10)	4440	3080	3730			
130 3220 1880 254 (14) (30. 135 200 (14) (14) 30. 135 200 (14) 140 200 155 (20. 145 20. 145 20. 145 20. 156 (12. 145 20. 156 20. 156 (12. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156 20. 156	125							3810	2460	3110			
135 202 202 140 152 145 100 Minimum boom angle (*) for indicated length (no load) 15 13 13 11	130							3220	1880	2540			
140 15 152 164 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 165 1	135							(14)	(14)	2020			
145 106 Minimum boom angle (*) for indicated length (no load) 15 13 13 11	140									1520			
Minimum boom angle (°) for indicated length (no load) 15 13 13 11	145												
		boom an	ale (°) for	indicated	lenath (r	no load)	15	13	13	(12.5)			
Maximum boom length (ft.) at 0° boom angle (no load) - Mode A and X 125.5										125.5			
Maximum boom length (ft.) at 0° boom angle (no load) - Mode B 111.1	Maximum	boom ler	ngth (ft.) a	t 0° booi	m angle (no load)	- Mode E	3		111.1			

NOTE: () Boom angles are in degrees.
"This capacity is based on maximum boom angle
NOTE: For allowable capacities while operating in 3-second wind gust speeds greater
than 30 mph and up to 45 mph, refer to Capacity Reduction Factors for wind speed
(3-second gust speed) V(2) greater than 30 mph.

	(2 2000110	ma gase speca) v(z) greater than so mpn.								
Boom Lifting capacitie			s at 0° bo	om ang	le					
	angle	111.1	111.1	111.1	125.5	125.5	125.5	139.9	139.9	154.3
	0°	4680 (103.6)	3230 (103.6)	1910 (103.6)	3230 (118)	1950 (118)				

NOTE: () Reference radii in feet. 80093666-2 Shaded area indicates optimal lift capacity within boom length sections.

Load chart (Mode X)













33 ft - 56 ft

27,000 lb

100%

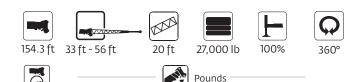


		33 ft length	l I		56 ft length	l
Feet	0° offset	20° offset	40° offset	0° offset	20° offset	40° offset
30	*13,900 (80)	_	_	_	_	_
35	13,900 (79.5)	_	_	*7960 (80)	_	_
40	13,900 (78)	*13,600 (80)	_	7960 (79)	_	_
45	13,900 (76.5)	13,600 (79.5)	_	7960 (78)	_	_
50	13,900 (75)	13,600 (78)	11,750 (80)	7960 (76.5)	_	_
55	13,900 (73.5)	13,600 (76.5)	11,600 (78.5)	7960 (75.5)	6700 (80)	_
60	13,900 (72)	13,550 (75)	11,450 (76.5)	7960 (74)	6450 (79)	_
65	13,900	13,300	11,300	7960	6240	*5000
	(70.5)	(73)	(75)	(72.5)	(77.5)	(80)
70	13,900	13,000	11,150	7600	6040	5000
	(69)	(71.5)	(73.5)	(71.5)	(76)	(79.5)
75	13,400	12,750	11,050	7190	5850	4900
	(67.5)	(70)	(71.5)	(70)	(74.5)	(78)
80	12,000	12,450	10,950	6780	5660	4810
	(66)	(68.5)	(70)	(68.5)	(73)	(76.5)
85	10,500	11,400	10,850	6450	5500	4730
	(64.5)	(66.5)	(68)	(67.5)	(72)	(74.5)
90	9220	10,000	10,650	6120	5350	4650
	(62.5)	(64.5)	(66.5)	(66)	(70.5)	(73)
95	8070	8810	9370	5860	5200	4580
	(60.5)	(63)	(64.5)	(64.5)	(69)	(71.5)
100	7060	7720	8230	5600	5050	4510
	(58.5)	(61)	(62.5)	(63)	(67.5)	(69.5)
105	6150	6750	7220	5360	4920	4450
	(56.5)	(58.5)	(60.5)	(61.5)	(66)	(68)
110	5330	5880	6300	5120	4800	4390
	(54.5)	(56.5)	(58)	(60)	(64)	(66)
115	4600	5090	5480	4930	4690	4340
	(52.5)	(54.5)	(56)	(58.5)	(62.5)	(64.5)
120	3930	4380	4730	4540	4590	4290
	(50)	(52.5)	(53.5)	(56.5)	(60.5)	(62.5)
125	3320	3720	4040	3940	4490	4240
	(48)	(50)	(51)	(54.5)	(59)	(61)
130	2760	3130	3410	3390	4230	4200
	(45.5)	(47.5)	(48.5)	(52.5)	(57)	(59)
135	2250	2580	2840	2880	3660	4160
	(43.5)	(45)	(46)	(50.5)	(55)	(57)
140	1770	2070	2310	2410	3140	3570
	(41)	(43)	(43.5)	(48.5)	(52.5)	(55)
145	1330	1600	1810	1980	2660	3030
	(38.5)	(40)	(40.5)	(46.5)	(50.5)	(53)
150	_	1170 (37.5)	_	1580 (44.5)	2210 (48.5)	2530 (50.5)
155	_	_	_	1210 (42.5)	1800 (46.5)	2060 (48)
160	_	_	_	_	1410 (44)	1630 (45.5)
165	_	_	_	_	1050 (42)	_
Min. boom angle for indicated length (no load)	36°	36°	38°	41°	41°	44°
Max. boom length at 0° boom angle (no load)		97 ft			97 ft	

- 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 154 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column that 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 33 ft or 56 ft extension erected, the outriggers must be fully extended.

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

(Mode X)



	76 ft ler	ngth (56' ext + 20	'insert)		
Feet	0° offset	20° offset	40° offset		
40	*6190 (80)	_	_		
45	6190 (79.5)	_	_		
50	6190 (78.5)	_	_		
55	6190 (77.5)	_	_		
60	6190 (76)	*6000 (80)	_		
65	6190 (75)	6000 (79.5)	_		
70	6190 (74)	5940 (78)	_		
75	6190	5760	4800		
	(72.5)	(77)	(80)		
80	6190	5580	4800		
	(71.5)	(75.5)	(78.5)		
85	6190	5420	4800		
	(70)	(74.5)	(77.5)		
90	6190	5260	4740		
	(69)	(73)	(76)		
95	6190	5130	4670		
	(68)	(72)	(74.5)		
100	6090	5000	4610		
	(66.5)	(70.5)	(73)		
105	5830	4880	4540		
	(65)	(69.5)	(71.5)		
110	5580	4760	4480		
	(64)	(68)	(70.5)		
115	5380	4650	4430		
	(62.5)	(66.5)	(69)		
120	4770	4540	4380		
	(61)	(65)	(67.5)		
125	4180	4440	4330		
	(59.5)	(63.5)	(66)		
130	3640	4350	4280		
	(58)	(61.5)	(64)		
135	3140	3870	4240		
	(56)	(60)	(62.5)		
140	2680	3360	3870		
	(54.5)	(58)	(60.5)		
145	2260	2880	3330		
	(52.5)	(56)	(58.5)		
150	1860	2440	2840		
	(51)	(54.5)	(56.5)		
155	1500	2030	2380		
	(49)	(52.5)	(54.5)		
160	1160	1640	1950		
	(47.5)	(51)	(52.5)		
165	_	1280 (49)	1550 (50.5)		
170	_	_	1170 (48.5)		
Min. boom angle for indicated length (no load)	46°	47°	47°		
Max. boom length at 0° boom angle (no load)		82 ft			

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

- 1. The 56 ft folding boom extension length may be used for single line lifting service only.
- For main boom lengths less than 154.3 ft
 with the boom extension erected, the rated
 loads are determined by boom angle. Use
 only the column that 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.

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

Load chart Stationary









39.2 ft - 82.4 ft

27,000 lb or 22,000 lb

Stationary

360

Stationary capacities						
Radius		Main boom length in feet				
in feet	39.2	53.6	68.0	82.4		
Tele I	0%	50%	50%	50%		
Tele II	0%	0%	17%	33%		
Tele III	0%	0%	17%	33%		
Tele IV	0%	0%	17%	33%		
Mode	X	Х	X	Х		
20	24,050 (52)	21,500 (63.5)	24,050 (69.5)	25,100 (73.5)		
25	15,300 (42)	14,150 (57.5)	16,200 (65)	17,450 (69.5)		
30	10,150 (25)	9330 (50.5)	11,100 (60)	12,450 (66)		
35	_	5870 (43.5)	7640 (55)	8970 (62)		
40	_	3290 (34.5)	5070 (50)	6400 (58)		
45	_	1270 (18.5)	3100 (44)	4420 (53.5)		
50	_	_	1550 (37.5)	2860 (49)		
55	_	_	_	1600 (44)		
Minimum boon indicated lengt	n angle (°) for h (no load)	0	36	43		
Maximum boom length at 0° boom angle (no load) - X mode			53.6 ft			

- *This capacity is based on maximum boom angle
- Lifting capacities at 0° boom angle

 39.2
 53.6
 68.0
 82.4

 0°
 8860 (31.7)
 —
 —
 —

NOTE: () Reference radii in feet.

- 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 29.5x25 (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







27,000 lb or 22,000 lb



Pick and carry Up to 1 mph 29.5 x 25 tires



Boom over front

Boom centered over front						
Radius	Main boom length in feet					
in feet	39.2	53.6	68.0	82.4		
Tele I	0%	50%	50%	50%		
Tele II	0%	0%	17%	33%		
Tele III	0%	0%	17%	33%		
Tele IV	0%	0%	17%	33%		
Mode	X	X	Х	Х		
12	49,450 (66)	42,150 (73)	-	_		
15	40,450 (61)	39,050 (69.5)	30,400 (74)	_		
20	29,550 (52)	29,100 (63.5)	27,300 (69.5)	24,350 (73.5)		
25	21,850 (42)	22,150 (57.5)	23,400 (65)	22,300 (69.5)		
30	16,150 (25)	16,850 (50.5)	18,550 (60)	20,250 (66)		
35	_	12,800 (43.5)	14,750 (55)	16,350 (62)		
40	_	9640 (34.5)	11,700 (50)	13,250 (58)		
45	_	7050 (18.5)	9240 (44)	10,700 (53.5)		
50	_	_	7110 (37.5)	8460 (49)		
55	_	_	5280 (29)	6520 (44)		
60	_	_	3780 (13)	4940 (38)		
65	_	_	_	3630 (31.5)		
70	_	_	-	2520 (23)		
Minimum boor	m angle (°) for indi	cated length (no	load)	32		
Maximum boo	m length at 0° boo	om angle (no load	d) - X mode	82.4 ft		

^{*}This capacity is based on maximum boom angle

Boom angle	Lifting capacities at 0° boom angle					
	39.2	53.6	68.0	82.4		
0°	14,550 (31.7)	6540 (46.1)	3650 (60.5)	1600 (74.8)		

NOTE: () Reference radii in feet.

- 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 29.5x25 (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.
- 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.

Rigging charts

Rigging chart Installation and removal of hydraulic removable counterweight on outriggers fully extended (360°)

Radius		oom ler n feet	ngth
in feet	39.2	53.6	68.0
Tele I Tele II Tele III Tele IV	0% 0% 0% 0%	50% 0% 0% 0%	50% 17% 17% 17%
Mode	Х	Х	Х
8	180,000 (72.5)		
9	180,000 (71)		
10	172,500 (69)	136,500 (75.5)	55,500 (78.5)
12	152,000 (66)	136,500 (73)	55,500 (77)
15	124,500 (61)	123,000 (69.5)	55,500 (74)
20	90,250 (51.5)	89,000 (63.5)	55,500 (69.5)
25	55,600 (40)	52,600 (57)	54,650 (65)
30	37,100 (23.5)	34,950 (50)	36,850 (60)
35		24,750 (42)	26,500 (55)
40		17,850 (32)	19,800 (49)
45		12,750 (16.5)	15,100 (43)
Minimum b for indicate	0		
Maximum b 0° boom an	68.0		

NOTE: () Boom angles are in degrees.

Boom	Lifting capacities at 0° boom angle			
angle	39.2	53.6	68.0	
0°	28,350 (31.7)	11,800 (46.1)	6200 (60.5)	

80093668

NOTE: () Reference radii in feet.

Loading and unloading - on rubber (O lb counterweight)				
Radius	Main boom length in feet			
in feet	39.2			
Tele I	0%			
Tele II	0%			
Tele III	0%			
Tele IV	0%			
Mode	X			
12	5400 (66)			
15	5400 (61)			
20	5400 (52)			
25	5400 (42)			
30	5400 (25)			
Note: () Boo	om angles are in degrees			
Boom angle	Lifting capacities at 0° boom angle			
aligie	39.2			
0°	4070 (31.7)			

Note: () Reference radii in feet.

80089238

NOTE: For loading and unloading, the boom must be centered over front of machine and mechanical swing lock engaged.

Load handling

Weight reductions for load handling devices	
Auxiliary boom nose	130 lb
Hook blocks and headache balls:	
90 USt, 5-sheave	1327 lb+
65 USt, 5-sheave	1280 lb+
50 USt, 3-sheave	1000 lb+
25 USt, 1-sheave	657 lb+
12 USt overhaul ball	558 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	76 (5.2)			

Line pulls and reeving information					
Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length		
Main and Auxiliary	19 mm (3/4 in) 35x8 Class Rotation Resistant (non-rotating) Min. Breaking strength 85,800 lb	17,160 lb*	702 ft		
Main and Auxiliary	22 mm K™100 Hoist Rope Min. Breaking strength 84,000 lb	16,800 lb*	722 ft		

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

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

33 ft - 56 ft folding boom extension					
	Without block or ball	With 558 lb overhaul ball			
*33 ft extension (erected)	3500 lb	5800 lb			
*56 ft extension (erected)	7400 lb	11,100 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.

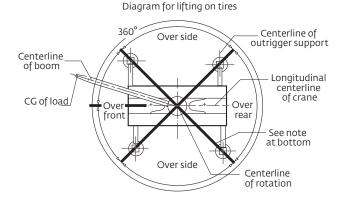
NOTE: When operating at temperatures below -40°F, capacities shall be derated 3.6% of rated load for each degree Fahrenheit below -40°F without shock load.

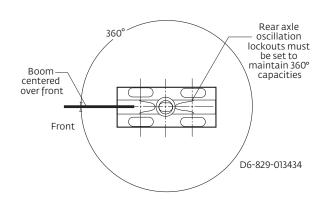
Hoist performance					
Wire rope layer	Hoist line pulls		Drum capacity (ft)		
	Two speed hoist				
	Low	High		Total	
	Available lb	Available lb	Layer		
1	23,468	12,957	108.7	108.7	
2	21,553	11,900	118.4	227.1	
3	19,927	11,003	128.1	355.2	
4	18,530	10,231	137.7	492.9	
5	17,315	9560	147.4	640.3	
6	16,250	8972	157.1	797.4	

*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.

Working area diagram





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

^{*}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.

Specifications

Superstructure



Boom

12 m - 47 m (39.2 ft - 154.3 ft) five-section, sequenced synchronized, full-power boom with three operator selectable modes of extension and retraction. Any mode can be enabled or disabled to offer all modes or limited mode depending on user or application usage. Maximum tip height: 50 m (165 ft)

→ *Optional manual bi-fold swingaway extension 10 m - 17 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 stowing and pin alignment. Maximum tip height: 67 m (220 ft)

*Optional hydraulic bi-fold swingaway extension 10 m – 17 m (33 ft – 56 ft) bi-fold lattice swingaway extension. Hydraulic luffing offset from 0° to 40°. Stows alongside base boom section. Electric motor assist for stowing and pin alignment. Maximum tip height: 67 m (220 ft)

*Optional lattice extension insert

(1) x 6 m (20 ft) lattice extension insert. Installs between boom nose and either optional extension.

Maximum tip height: 72,9 m (239.4 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

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.

*Optional 12 247 kg (27,000 lb) one-piece counterweight. Hydraulically installed and removed. Controls located on superstructure.

*Optional 2268 kg (5000 lb) pinned slab increases counterweight to 12 247 kg (27,000 lb) hydraulically installed and removed with standard counterweight.



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 rpm

Hoist (main and auxiliary hoist)

Planetary reduction driven by axial piston motor. Grooved drum with automatic spring applied multi-disk wet brake. Electronic hoist drum rotation indicator and hoist drum cable follower. Third wrap indictor with hoist function cut-out standard. Maximum hoist single line pull:

1st layer: 10 645 kg (23,468 lb) 3rd layer: 9039 kg (19,927 lb) 6th layer: 7371 kg (16,250 lb) Maximum permissible single line pull:

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

Maximum hoist single line speed (no load): 148 m/min (487 ft/min)

Rope construction:

35 x 7 rotation - resistant

Rope diameter:

19 mm (3/4 in)

Rope length:

Main hoist: 214 m (702 ft)

Aux. hoist: 214 m (702 ft)

Maximum usable rope:

241 m (790 ft) 6 layers

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.



├ 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 R.C.L. screen. Maximum outrigger pad load: 57 290 kg (126,300 lb)



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 QSB6,7L 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 U.S. EPA Tier 4F and E.U. Stage IV.

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 North America and European Union.



Engine (Tier 3)

Cummins QSB6.7L diesel six cylinder, turbo-charged with 275 hp (205 kW) at 2500 rpm, Maximum torque: 730 lb/ft (990 Nm) at 1500 rpm. Fuel requirements: Maximum of 5000 ppm. Sulfur diesel fuel. NOTE: Required for sale outside of N.A. and European Union.



Fuel tank capacity

312 L (82 gal)



O Transmission

Rangeshift with six forward and six reverse speeds.

(Three speeds high and three speeds low). Front axle disconnect for 4 x 2 drive.



→ 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 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.



flack f I Steering

Fully independent power steering.

Front: Fully hydraulic steering wheel controlled.

Rear: Fully hydraulic via separate momentary switch provides infinite variations 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 (16.0 ft)



29.5 x 25 - 34 bias ply rating



← | Electrical system

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



Lighting

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



Maximum Drive Speed

24,1 km/h (15 mph) with 9979 kg (22,000 lb) counterweight 16 km/h (10 mph) with 12 247 kg (27,000 lb) counterweight



Gradeability (theoretical)

70% to drive train stall based on 55 763 kg (122,935 lb) GVW with 29.5 x 25 tires, standard counterweight, auxiliary hoist and manual bi-fold extension.

Miscellaneous standard equipment

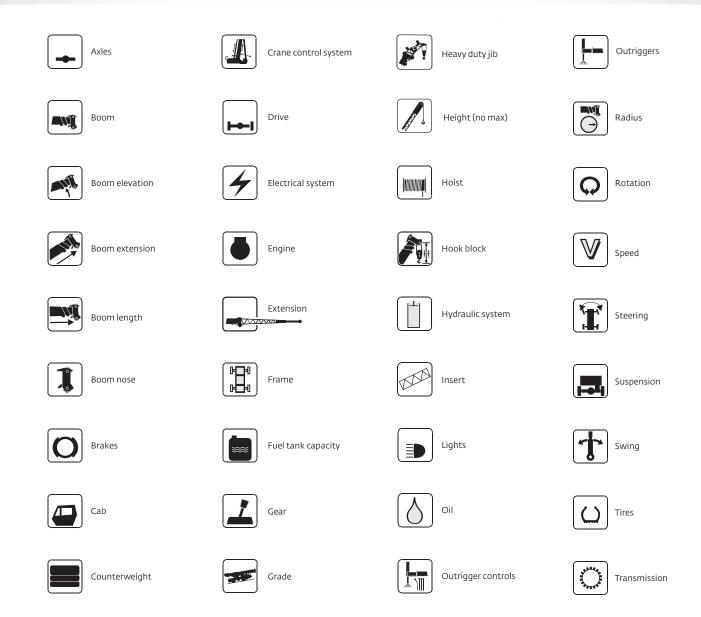
Full length steel fenders with full aluminum decking, dual rear view mirrors, hook block tie-down, electronic back-up alarm, front stowage tray, hot water cab heater / defroster, cab air conditioner, hoist mirrors, hourmeter, A/V warning system, combination lift/tie-down/towing lugs, coolant sight level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

*Optional equipment

- Auxiliary Hoist Package: Includes MTW 19-241 hoist with electronic hoist drum rotation indicator, hoist drum cable follower, third wrap indicator with hoist function cut-out, 214 m (702 ft) of 19 mm (34 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 R.C.L. light bar and rubber mat for storage trough.
- 10 m 17 m (33 ft 56 ft) Manual bi-fold swingway extension
- 10 m 17 m (33 ft 56 ft) hydraulic luffing extension
- 3 m (10 ft) heavy-duty extension with two sheaves
- 5000 lb (2268 kg) additional counterweight slab 360° NYC style mechanical swing lock
- Rear pintle hitch
- Cab-controlled cross axle differential locks (front and rear)
- Wireless wind speed indicator
- Vertical R.C.L. light tower
- -29C / -20F cold weather package
- -40C / -40F arctic weather package
- Electric drive line retarder
- 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

^{*} Denotes optional equipment

Symbols Glossary





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