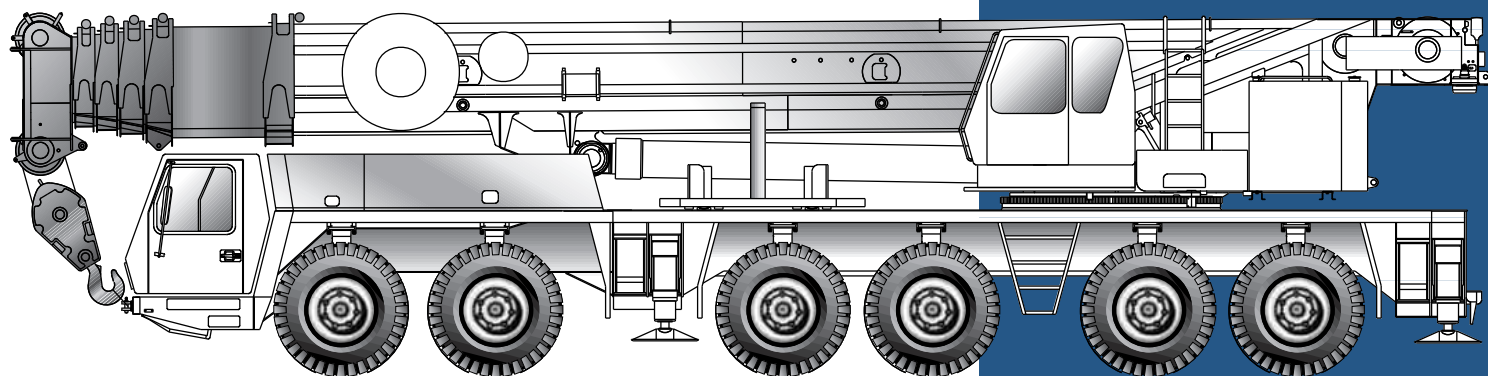




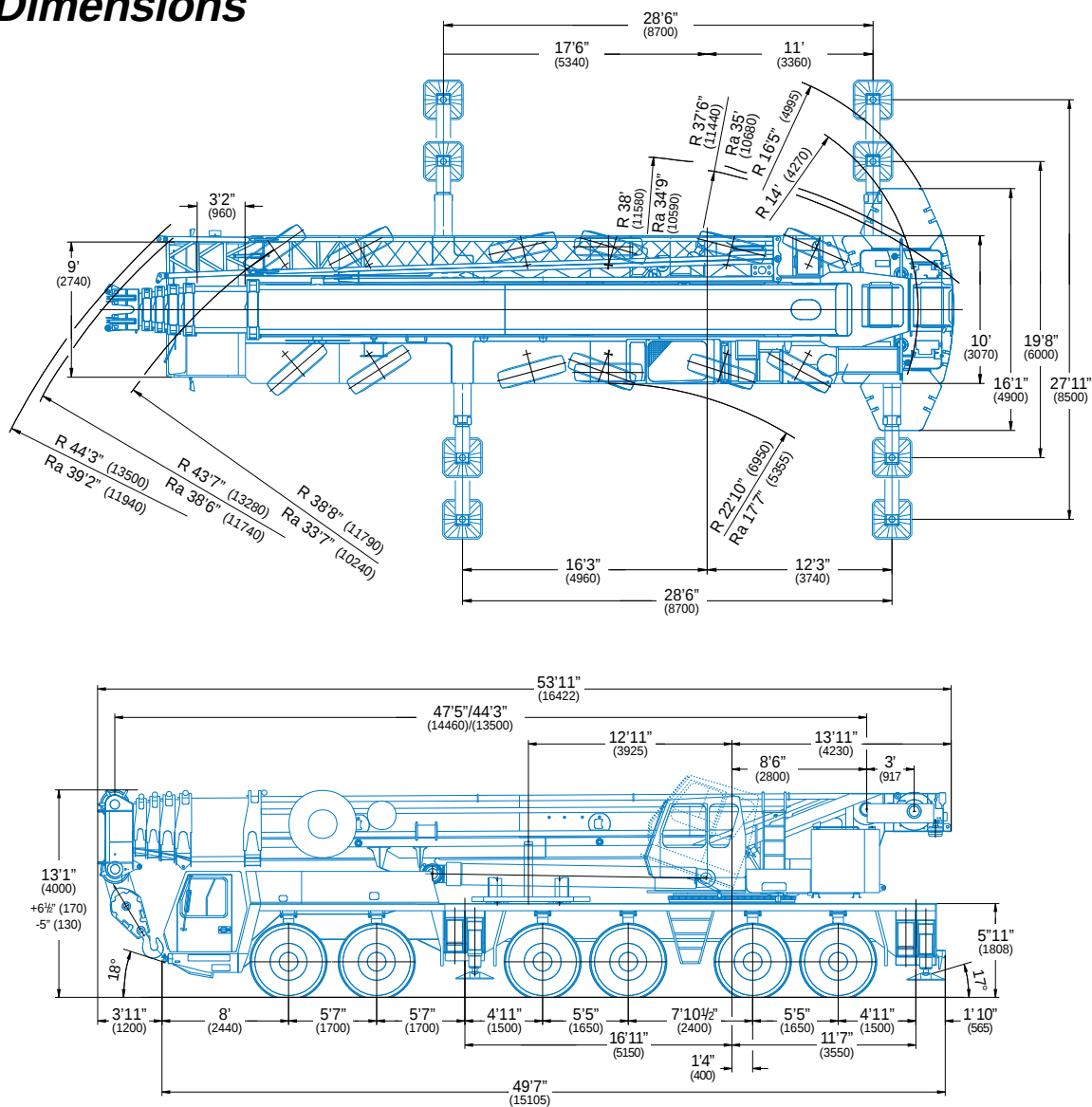
GMK6220

All Terrain Hydraulic Crane





Dimensions



Note: () Reference dimensions in mm

BASIC WEIGHTS (LBS.)

	Axles 1 & 2	Axles 3 - 6	Total
With Cummins Power, 20.5 R25 Tires	39,172	102,562	141,734
With Mercedes Power, 20.5 R25 Tires	38,810	102,218	141,028

Additions:

Outrigger Pads	0	772	772
Auxiliary Hoist	-(3,283)	7,009	3,726
Additional Hydraulic Oil Cooler	-(55)	143	88
Brackets & Hydraulic Reeling Drum for Lattice Extension	397	110	507
Lattice Extension - 43/72 ft	3,704	1,587	5,291
Spare Tire - 14.00 R25	-(425)	1,010	584
Spare Tire - 16.00 R25	-(522)	1,239	717
Spare Tire - 20.5 R25	-(593)	1,402	809
Boom Removal Equipment	53	212	265

Removal:

Front Outrigger Beams & Jacks	-(3,377)	-(1,980)	-(5,357)
Rear Outrigger Beams & Jacks	3,732	-(9,652)	-(5,919)
Boom Assembly (minus lift cylinder)*	-(20,102)	-(24,806)	-(44,908)
Lift Cylinder*	-(1,457)	-(3,018)	-(4,475)
16.00 R25 Tires in lieu	-(370)	-(741)	-(1,111)
14.00 R25 Tires in lieu	-(899)	-(1,799)	-(2,698)

*Reflects weights with superstructure facing forward



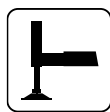
Working range



44 - 197 ft.
(13.5 - 60 m)



138,800 lbs.
(63,000 kg)



100%



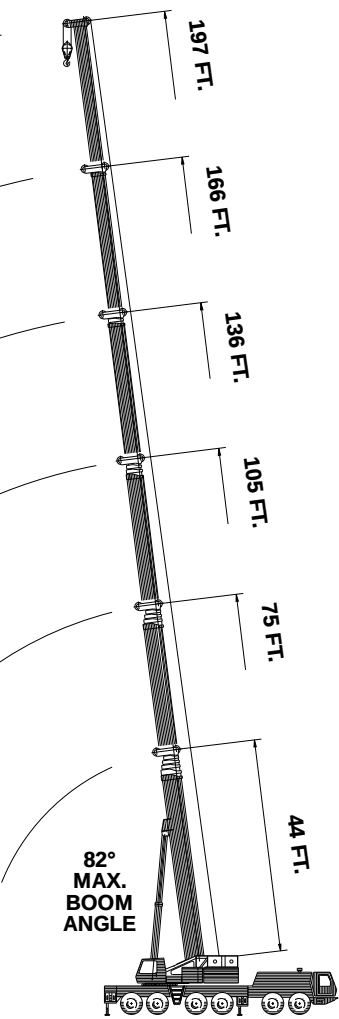
360°

FEET

220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 FEET

AXIS OF ROTATION →





Superstructure specifications

Boom

44 ft. - 197 ft. (13.5 m - 60 m) six section, full-power boom with patented "twin-lock" boom pinning system. Maximum tip height: 207 ft. (63 m).

Boom Elevation

Single lift cylinder with safety valve provides boom angle from -1.5° to +82°.

Lattice Extension

43 ft. - 72 ft. (13 m - 22 m) lattice swingaway extension. Hydraulically offsettable 5° - 40° with hydraulic luffing.

*Optional Lattice Jib Extension

Two 26 ft. (8 m) inserts for use with lattice swingaway extension to increase length up to 98 ft. (30 m) or 125 ft. (38 m). Hydraulically offsettable 5° - 40° with hydraulic luffing.

Load Moment & Anti-Two Block System

Load moment and anti-two block system with audio/visual warning and control lever lockout provides electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

Cab

All aluminum construction cab is tiltable (approximately 20°) and includes safety glass and adjustable operator's seat with hydraulic suspension. Other features include engine dependent hot water heater, armrest integrated crane controls, and ergonomically arranged instrumentation.

Swing

3 swing gears with axial piston fixed displacement motors provide swing speed of 0 - 1.7 RPM thru planetary gear box. Also provided is a spring applied, hydraulically released automatic swing brake with foot-operated release for free swing.

Counterweight

138,800 lbs. (63 000 kg) consisting of various sections with hydraulic installation/removal system (see counterweight configuration on page 12).

Engine

Cummins 6BTA5.9-C, diesel, 6 cylinders, water-cooled, turbocharged, 165 HP (123 kW) at 2000 rpm. Max. torque: 538 ft. lbs. (730 Nm) at 1500 rpm. Engine emission: EUROMOT/EPA/CARB (off highway).

Fuel Tank Capacity

53 gal. (200 L).

Hydraulic system

3 separate circuits, 2 axial piston variable displacement pumps, with electronic power limiting control and 1 axial piston variable displacement pump for swing. Standard thermostatically controlled oil cooler keeps oil at optimum operating temperature. Tank capacity: 259 gal. (980 L)

Control system

Full electronic control of all crane movements is accomplished using electrical control levers with automatic reset to zero. Controls are integrated with the LMI and engine management system by CAN-BUS.

Hoist

Main and auxiliary hoist are powered by axial piston variable displacement motor with planetary gear and brake. "Thumb-thumper" hoist drum rotation indicator alerts operator of hoist movement.

	<u>Main</u>	<u>Auxiliary</u>
Line length:	984 ft. (300 m)	755 ft. (230 m)
Rope diameter:	22 mm	22 mm
Line speed:	426 ft./min.	426 ft./min.
Line pull:	21,000 lbs. (93.4 kN)	21,000 lbs. (93.4 kN)

Electrical system

24 V system with three-phase alternator 28 V/80 A, 2 batteries 12 V/170 Ah.

*Optional equipment

- *Engine-independent hot water heater, with engine pre-heater
- *Second spotlight
- *Stereo/cassette player
- *Air Conditioning

* Denotes optional equipment



Carrier specifications

Chassis

Box-type, torsion resistant frame is fabricated from high-strength steel.

Outrigger System

Hydraulic two-stage outrigger beams are extended by a single hydraulic cylinder and two cables. Outriggers can adjust to two positions:

Fully extended (100%) - 27' 11" (8.5 m)

Partially extended (50%) - 19' 8" (6 m)

Four 29.5 in. x 32 in. (750 mm x 810 mm), self stowing, steel outrigger pads provide rigid lifting base. Outrigger controls are located on both sides of the carrier. An electronic level indicator is located next to each outrigger control box.

Engine

Cummins N14-525 E+, diesel, 6 cylinders, water-cooled, turbocharged, 525 HP (392 kW) at 2100 rpm. Max. torque: 1850 ft. lbs. (2509 Nm) at 1200 rpm. Engine emission: EUROMOT/EPA/CARB (on highway).

Fuel Tank capacity

132 gal. (500 L).

Transmission

Allison automatic CLT 755, 5 forward and 1 reverse speed. Transfer case with 2 speeds and inter-axle differential lock.

Drive/Steer

12 x 8 x 12.

Axles

6 axles. 1, 2, 4 and 5 are drive/steer. Axles 3 and 6 are steer only.

Suspension

GMK6220 features the Grove exclusive MEGATRAK[†] suspension. This revolutionary design features an independent hydroneumatic system with hydraulic lockout acting on all wheels. The suspension can be raised 6-1/2" (170 mm) or lowered 5" (130 mm) both longitudinally and transversely and features an automatic leveling system for on-highway travel.

Tires

12 tires, 20.5 R25.

Steering

Dual circuit steering system is hydraulic power assisted with a transfer case mounted, ground driven, emergency steering pump. Axles 1, 2, 3, 5 and 6 steer on highway. Separate steering of the 4th, 5th and 6th axle for all wheel steer and crab-steer is controlled by an electric rocker switch.

Brakes

A dual circuit air system operates on all wheels with a spring-applied, air released parking brake acting on axles 2, 4, 5 and 6. An air dryer is fitted to remove moisture from the air system.

Auxiliary exhaust brake and constant throttle brake is standard.

Cab

Two-man, aluminum construction driver's cab includes the following features: safety glass; driver and passenger seats with hydraulic suspension, engine-dependent hot water heater, complete instrumentation and driving controls.

Electrical system

24 V system with three-phase alternator 28 V/80 A, 2 batteries 12 V/170 Ah.

Maximum Speed

48 mph (77km/h) with 20.5 R25 tires.

Gradeability (theoretical)

46% with 20.5 R25 tires.

Miscellaneous standard equipment

Boom removal kit; trailing boom kit (less dolly); additional hydraulic oil cooler; spare tire and wheel - 20.5 R25 with carry bracket; flashing amber warning light on carrier cab; working light; tool kit; fire extinguisher; rooster sheave; radio cassette in carrier cab.

* Optional equipment

- * Electric driveline retarder
- * 16.00 R25 tires (vehicle width 9 ft. 10 in. [3 m])
- * 14.00 R25 tires (vehicle width 9 ft. 9 in. [2.98 m])
- * Outrigger pressure measurement devices
- * Folding bunk bed in carrier cab
- * Engine-independent hot water heater, with engine pre-heater
- * Third seat
- * Trailing boom "boost" weight transfer kit
- * Air conditioning
- * Mercedes-Benz engines

* Denotes optional equipment

[†] "G MEGATRAK" (and design) is a trademark of Grove U.S. L.L.C.



											
44 - 197 ft. (13.5 - 60.0 m)	138,800 lbs. (63,000 kg)	100% 27'11" Spread	360°								
	 Pounds (thousands)										
Feet	44	60	75	90	105	121	136	151	166	182	197
9	440.0†/420.0										
10	406.0	340.0	260.0	189.0							
15	308.0	298.0	258.0	189.0	153.0						
20	254.0	246.0	232.0	187.0	153.0	121.0	92.0				
25	210.0	210.0	202.0	174.0	150.0	121.0	87.0	68.0			
30	169.0	178.0	175.0	155.0	137.0	118.0	82.0	65.0	56.0	45.0	
35		148.0	145.0	138.0	123.0	109.0	76.0	63.0	54.0	44.0	38.8
40		126.0	122.0	123.0	112.0	99.0	73.0	61.0	52.0	43.0	38.4
45		108.0	105.0	107.0	102.0	90.0	66.0	59.0	50.0	42.2	37.4
50			92.0	94.0	93.0	83.0	61.0	56.0	49.0	41.0	36.4
55			81.0	83.0	85.0	77.0	57.0	51.0	47.0	39.8	35.4
60				73.0	76.0	72.0	54.0	47.0	43.8	38.4	34.4
65				66.0	68.0	66.0	51.0	42.4	40.0	36.8	33.4
70				61.0	61.0	62.0	48.0	39.4	37.2	35.4	32.4
75				57.0	56.0	58.0	45.0	36.4	34.4	33.2	31.4
80					50.0	53.0	42.8	34.4	31.8	30.8	30.0
85					46.0	48.0	41.0	33.0	30.0	28.6	28.0
90					43.0	43.0	39.2	31.4	28.0	26.4	26.0
95						40.0	37.4	29.8	26.4	24.4	24.0
100						36.6	35.6	28.4	25.0	22.4	22.4
105							34.4	27.2	23.6	21.2	21.0
110							32.8	26.2	22.2	19.8	19.8
115							30.2	25.0	20.8	18.6	18.6
120								24.0	19.6	17.4	17.4
125								22.8	18.6	16.4	16.4
130								21.6	17.8	15.4	15.4
135								20.8	17.0	14.6	14.6
140									16.2	14.0	13.8
145									15.4	13.2	13.0
150									14.8	12.6	12.4
155										12.0	11.6
160										11.6	11.0
165											10.4
170											9.80
175											9.20
180											8.60

† 440,000 lbs is a Comparative Rating.

Lifting capacities greater than 350,000 lbs require additional equipment.

Note: Above chart also available with reduced outriggers.

											
44 - 197 ft. (13.5 - 60.0 m)	94,700 lbs. (43,000 kg)	100% 27'11" Spread	360°								
	 Pounds (thousands)										
Feet	44	60	75	90	105	121	136	151	166	182	197
9	440.0†/420.0										
10	406.0	340.0	260.0	189.0							
15	308.0	298.0	258.0	189.0	153.0						
20	254.0	246.0	232.0	187.0	153.0	121.0	92.0				
25	196.0	198.0	194.0	174.0	150.0	121.0	87.0	68.0			
30	155.0	157.0	154.0	155.0	137.0	118.0	82.0	65.8	56.0	45.0	
35		130.0	127.0	129.0	123.0	109.0	76.0	63.0	54.0	44.0	38.8
40		111.0	107.0	109.0	111.0	99.0	71.0	61.0	52.0	43.0	38.4
45		96.0	91.0	93.0	96.0	90.0	65.0	59.0	50.0	42.2	37.4
50			77.0	79.0	82.0	83.0	61.0	56.0	49.0	41.0	36.4
55			65.0	67.0	70.0	72.0	57.0	51.0	47.0	39.8	35.4
60				62.0	64.0	63.0	54.0	47.0	43.8	38.4	34.4
65				57.0	57.0	56.0	51.0	42.4	40.0	36.8	33.4
70				52.0	51.0	49.0	48.0	39.4	37.2	35.4	32.4
75				46.0	46.0	44.0	45.0	36.4	34.4	33.2	31.4
80					41.0	39.4	41.4	34.4	31.8	30.8	30.0
85					36.8	37.4	37.2	33.0	30.0	28.6	28.0
90					33.2	35.2	33.6	31.4	28.0	26.4	26.0
95						32.0	30.4	29.8	26.4	24.4	24.0
100						29.2	27.6	28.4	25.0	22.4	22.4
105							25.0	26.0	23.6	21.2	21.0
110							23.2	23.8	22.2	19.8	19.8
115							22.0	21.8	20.8	18.6	18.6
120								20.0	19.6	17.2	17.4
125								18.2	18.6	16.2	16.4
130								16.8	17.0	15.4	15.4
135								15.4	15.6	14.6	14.0
140									14.4	13.8	12.8
145									13.2	12.6	11.6
150									12.0	11.6	10.4
155										10.4	9.4
160										9.60	8.4
165											7.6
170											6.8
175											6.0
180											5.2

† 440,000 lbs is a Comparative Rating.

Lifting capacities greater than 350,000 lbs require additional equipment.

Note: Above chart also available with reduced outriggers.

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.



															
44 - 197 ft. (13.5 - 60.0 m)	28,600 lbs. (13,000 kg)	100% 27'11" Spread	360°												
	 Pounds (thousands)														
Feet	44	60	75	90	105	121	136	151	166	182	197				
10	406.0	340.0	260.0	189.0											
15	302.0	298.0	258.0	189.0	153.0										
20	207.0	209.0	201.0	187.0	153.0	121.0	92.0								
25	157.0	160.0	142.0	142.0	130.0	121.0	87.0	68.0							
30	114.0	120.0	104.0	107.0	105.0	97.0	82.0	65.0	56.0	45.0					
35		89.0	89.0	90.0	84.0	77.0	76.0	63.0	54.0	44.0	38.8				
40		70.0	73.0	73.0	69.0	66.0	63.0	57.0	52.0	43.0	38.4				
45		56.0	59.0	60.0	57.0	57.0	52.0	52.0	46.0	42.2	37.4				
50			49.0	49.0	52.0	48.0	47.0	43.6	42.4	39.8	36.4				
55			40.2	42.0	43.2	41.2	41.0	39.8	37.0	34.2	31.4				
60				36.6	36.6	37.0	35.6	34.6	32.0	29.4	27.0				
65				31.2	31.4	32.4	32.0	30.2	27.8	25.4	23.2				
70				26.8	26.8	28.0	27.6	26.4	24.4	22.2	19.8				
75				23.2	23.2	24.2	24.0	23.2	21.2	19.2	17.0				
80					20.0	21.0	20.8	20.2	18.6	16.6	14.6				
85					17.4	18.4	18.2	17.6	16.4	14.4	12.4				
90					15.2	16.2	16.0	15.4	14.2	12.4	10.6				
95						14.0	14.0	13.4	12.4	10.8	8.8				
100						12.4	12.2	11.6	10.6	9.2	7.4				
105							10.6	10.0	9.0	7.8	6.0				
110							9.2	8.60	7.6	6.4	4.8				
115							8.0	7.40	6.4	5.4	3.6				
120								6.20	5.4	4.2					
125								5.20	4.2	3.2					
130								4.40	3.4						
135								3.40							

Lifting capacities greater than 350,000 lbs require additional equipment.
Note: Above chart also available with reduced outriggers.

															
44 - 197 ft. (13.5 - 60.0 m)	9,700 lbs. (4,200 kg)	100% 27'11" Spread	360°												
	 Pounds (thousands)														
Feet	44	60	75	90	105	121	136	151	166	182	197				
10	406.0	340.0	260.0	189.0											
15	282.0	278.0	232.0	189.0	153.0										
20	192.0	175.0	144.0	138.0	131.0	115.0	92.0								
25	130.0	121.0	113.0	106.0	96.0	87.0	82.0	68.0							
30	90.0	90.0	86.0	80.0	75.0	70.0	65.0	59.0	50.0	45.0					
35		68.0	66.0	62.0	61.0	56.0	54.0	50.0	46.0	41.4	37.2				
40		52.0	52.0	52.0	49.0	47.0	44.0	41.0	37.4	33.6	30.2				
45		39.8	43.0	42.8	40.2	39.2	36.8	34.0	31.0	27.8	24.6				
50			35.0	35.8	33.6	33.0	31.0	28.6	25.8	23.0	20.2				
55			28.0	30.2	28.4	28.0	26.2	24.2	21.8	19.2	16.6				
60				25.2	24.0	24.0	22.4	20.6	18.2	15.8	13.4				
65				20.8	20.6	20.6	19.2	17.6	15.4	13.2	10.8				
70				17.4	17.4	17.6	16.4	15.0	13.0	10.8	8.6				
75				14.4	14.6	15.2	14.2	12.6	10.8	8.8	6.8				
80					12.2	13.2	12.2	10.8	9.0	7.0	5.0				
85					10.0	11.0	10.4	9.0	7.2	5.4	3.6				
90					8.20	9.20	8.8	7.6	5.8	4.0					
95						7.60	7.4	6.2	4.6	2.8					
100						6.40	6.2	5.0	3.4						
105							5.0	3.8							
110							3.8	3.0							
115							2.8								

Lifting capacities greater than 350,000 lbs require additional equipment.
Note: Above chart also available with reduced outriggers.

															
44 - 197 ft. (13.5 - 60.0 m)	0 lbs. (0 kg)	100% 27'11" Spread	360°												
	 Pounds (thousands)														
Feet	44	60	75	90	105	121	136	151	166	182	197				
10	406.0	340.0	260.0	189.0											
15	270.0	254.0	206.0	181.0	153.0										
20	171.0	155.0	123.0	128.0	113.0	99.0	92.0								
25	111.0	104.0	99.0	90.0	83.0	77.0	71.0	63.0							
30	75.0	74.0	71.0	68.0	64.0	60.0	56.0	51.0	46.0	41.0					
35		54.0	54.0	53.0	49.0	47.0	44.0	40.2	36.4	32.2	28.4				
40		41.4	42.2	42.0	39.2	38.0	35.4	32.4	29.2	25.8	22.4				
45		31.0	33.6	34.0	31.8	31.2	29.0	26.6	23.6	20.6	17.8				
50			27.2	28.0	26.0	25.8	24.0	21.8	19.4	16.6	14.0				
55			21.4	23.2	21.6	21.4	20.0	18.2	15.8	13.4	10.8				
60				19.4	18.0	18.0	16.6	15.0	12.8	10.6	8.4				
65				15.6	15.0	15.0	14.0	12.4	10.4	8.2	6.0				
70				12.6	12.4	12.6	11.6	10.2	8.2	6.2	4.2				
75				10.2	10.2	10.6	9.6	8.2	6.4	4.6					
80					8.2	8.8	7.8	6.6	4.8	3.0					
85					6.4	7.2	6.4	5.2	3.4						
90					4.8	5.8	5.0	3.8							
95						4.4	3.8	2.6							
100						3.2	2.8								

Lifting capacities greater than 350,000 lbs require additional equipment.
Note: Above chart also available with reduced outriggers.

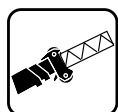
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



Working Range



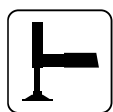
121 - 197 ft.
(36,8 - 60 m)



43 - 125 ft.
(13 - 38 m)



138,800 lbs.
(63,000 kg)



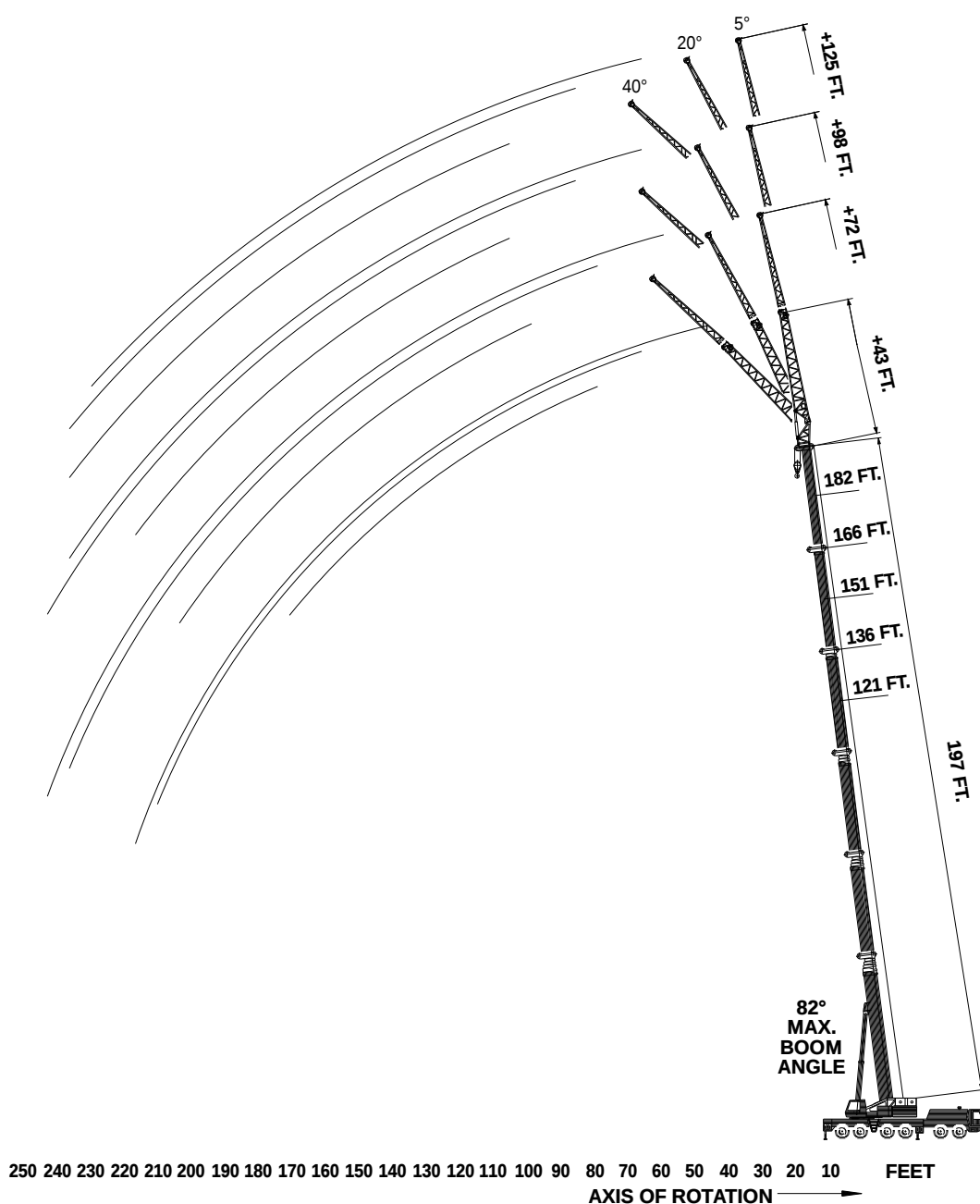
100%



360°

FEET

340
330
320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10





197 ft. (60.0 m)	43-72-98-125 ft. (13-22-30-38 m)	138,800 lbs. (63,000 kg)	100% 27'11" Spread	360°								
Pounds (thousands)												
Feet	5°	43 FT 20°	40°	5°	72 FT 20°	40°	5°	98 FT 20°	40°	5°	125 FT 20°	40°
40	18.6											
45	18.6											
50	18.4											
55	18.4	18.6		12.2								
60	18.4	18.6		12.2			9.2			6.4		
65	18.2	18.4		12.2			9.2			6.4		
70	18.2	18.4	18.0	12.2			9.2			6.4		
75	18.2	18.4	18.0	12.2	11.0		9.2			6.4		
80	18.2	18.4	18.0	12.2	10.8		9.2			6.4		
85	18.0	18.2	18.0	12.2	10.8		9.2			6.4		
90	17.6	18.0	18.0	12.2	10.8		9.2	9.2		6.4	6.4	
95	17.4	17.8	18.0	12.0	10.6	10.0	9.2	9.2		6.4	6.4	
100	17.0	17.4	18.0	12.0	10.6	10.0	9.2	9.2	7.8	6.4	6.4	
105	16.6	17.0	17.4	12.0	10.6	10.0	9.2	9.2	7.8	6.4	6.4	6.4
110	16.2	16.6	16.6	11.8	10.4	10.0	9.2	9.2	7.8	6.4	6.4	6.4
115	15.6	15.8	16.0	11.8	10.4	9.8	9.2	9.0	7.8	6.4	6.4	6.4
120	14.6	15.0	15.2	11.6	10.4	9.8	9.2	8.8	7.8	6.4	6.4	6.4
125	13.8	14.0	14.4	11.6	10.4	9.8	9.2	8.6	7.8	6.4	6.2	6.2
130	13.0	13.2	13.8	11.6	10.4	9.6	9.2	8.6	7.8	6.4	6.2	6.2
135	12.4	12.6	13.0	11.4	10.2	9.6	9.0	8.4	7.8	6.4	6.0	6.0
140	11.6	12.0	12.4	11.0	10.2	9.6	8.8	8.2	7.8	6.2	6.0	5.8
145	11.0	11.2	11.8	10.4	10.0	9.4	8.6	8.0	7.6	6.2	5.8	5.8
150	10.4	10.6	11.0	10.0	9.8	9.4	8.4	8.0	7.6	6.0	5.8	5.6
155	9.6	10.0	10.4	9.4	9.6	9.4	8.0	7.8	7.4	5.8	5.6	5.6
160	9.0	9.4	9.8	9.0	9.2	9.2	7.8	7.6	7.4	5.8	5.4	5.4
165	8.4	8.8	9.2	8.6	9.0	9.2	7.6	7.4	7.2	5.6	5.4	5.2
170	8.0	8.2	8.6	8.0	8.6	8.8	7.2	7.2	7.0	5.4	5.2	5.2
175	7.4	7.8		7.6	8.0	8.4	6.8	6.8	6.8	5.2	5.2	5.0
180	7.0	7.2		7.2	7.6	8.0	6.6	6.6	6.8	5.0	5.0	5.0
185	6.6	6.8		6.8	7.2	7.6	6.2	6.4	6.6	5.0	5.0	4.8
190	6.0	6.2		6.2	6.8	7.2	5.8	6.0	6.4	4.8	4.8	4.8
195	5.6	5.8		5.8	6.4	7.0	5.4	5.8	6.2	4.6	4.6	4.6
200	5.2	5.4		5.4	6.0	6.4	5.0	5.4	6.0	4.4	4.4	4.6
205	4.8	5.0		5.0	5.6		4.8	5.2	5.6	4.0	4.2	4.4
210	4.4			4.8	5.2		4.4	4.8	5.2	3.8	4.0	4.2
215	4.0			4.4	4.8		4.0	4.4	4.8	3.4	3.8	4.0
220				4.0	4.4		3.6	4.0		3.2	3.6	3.8
225				3.6	4.0		3.4	3.6		2.8	3.2	3.6
230				3.2	3.6		3.0	3.4		2.6	3.0	3.4
235				3.0	3.2		2.6	3.0		2.4	2.8	3.2
240				2.6			2.4	2.8			2.4	
245				2.4				2.4				

197 ft. (60.0 m)	43-72-98-125 ft. (13-22-30-38 m)	138,800 lbs. (63,000 kg)	100% 27'11" Spread	360°				
Pounds (thousands)								
	43 FT		72 FT		98 FT		125 FT	
Feet	5° - 20°	20° - 40°	5° - 20°	20° - 40°	5° - 20°	20° - 40°	5° - 20°	20° - 40°
55	16.8							
60	16.8							
65	16.8							
70	16.8	16.4						
75	16.8	16.4	10.0					
80	16.8	16.4	9.8					
85	16.6	16.4	9.8					
90	16.4	16.4	9.8		8.4		5.8	
95	16.2	16.4	9.6	9.2	8.4		5.8	
100	15.8	16.2	9.6	9.0	8.4	7.0	5.8	
105	15.4	15.8	9.6	9.0	8.4	7.0	5.8	5.8
110	15.0	15.2	9.6	9.0	8.4	7.0	5.8	5.8
115	14.4	14.4	9.4	9.0	8.2	7.0	5.8	5.8
120	13.6	13.8	9.4	9.0	8.0	7.0	5.8	5.8
125	12.8	13.2	9.4	8.8	7.8	7.0	5.8	5.8
130	12.0	12.4	9.4	8.8	7.8	7.0	5.6	5.6
135	11.4	11.8	9.4	8.6	7.6	7.0	5.6	5.4
140	10.8	11.2	9.4	8.6	7.4	7.0	5.4	5.4
145	10.2	10.6	9.2	8.6	7.4	7.0	5.4	5.2
150	9.6	10.0	9.0	8.6	7.2	6.8	5.2	5.2
155	9.2	9.4	8.6	8.4	7.0	6.8	5.2	5.0
160	8.6	8.8	8.4	8.4	7.0	6.6	5.0	5.0
165	8.0	8.4	8.2	8.4	6.8	6.6	4.8	4.8
170	7.6	7.8	7.8	8.0	6.6	6.4	4.8	4.8
175	7.0		7.4	7.6	6.2	6.2	4.6	4.6
180	6.6		7.0	7.4	6.0	6.2	4.6	4.6
185	6.2		6.6	7.0	5.8	6.0	4.4	4.4
190	5.6		6.2	6.6	5.6	5.8	4.4	4.4
195	5.2		5.8	6.2	5.2	5.6	4.2	4.2
200	4.8		5.4	5.8	5.0	5.4	4.0	4.2
205	4.4		5.0		4.6	5.0	3.8	4.0
210			4.6		4.4	4.8	3.6	3.8
215			4.4		4.0	4.4	3.4	3.6
220			4.0		3.6		3.2	3.4
225			3.6		3.4		3.0	3.2
230			3.2		3.0		2.8	3.2
235			3.0		2.8		2.6	2.8
240					2.4		2.2	
245					2.2			

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.



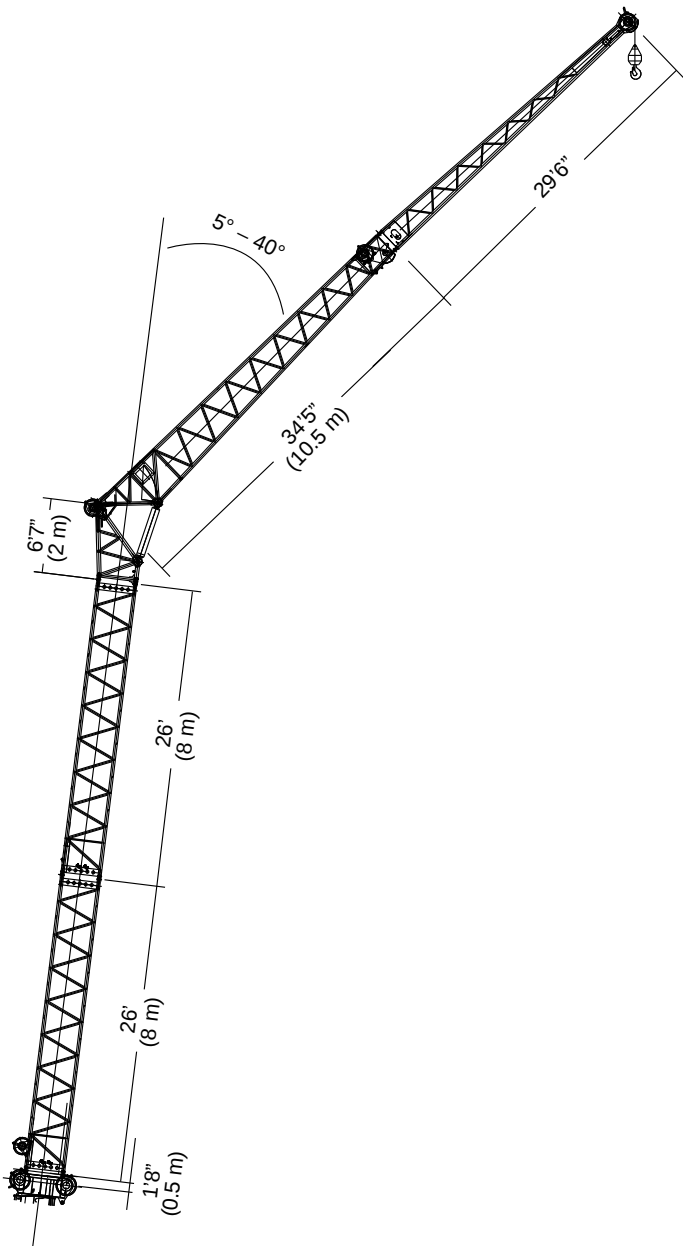
197 ft. (60.0 m)	43-72-98-125 ft. (13-22-30-38 m)	94,700 lbs. (43,000 kg)	100% 27'11" Spread	360°								
	Pounds (thousands)											
Feet	5°	43 FT 20°	40°	5°	72 FT 20°	40°	5°	98 FT 20°	40°	5°	125 FT 20°	40°
40	18.6											
45	18.6											
50	18.4											
55	18.4	18.6		12.2								
60	18.4	18.6		12.2			9.2			6.4		
65	18.2	18.4		12.2			9.2			6.4		
70	18.2	18.4	18.0	12.2			9.2			6.4		
75	18.2	18.4	18.0	12.2	11.0		9.2			6.4		
80	18.2	18.4	18.0	12.2	10.8		9.2			6.4		
85	18.0	18.2	18.0	12.2	10.8		9.2			6.4		
90	17.6	18.0	18.0	12.2	10.8		9.2	9.2		6.4	6.4	
95	17.4	17.8	18.0	12.0	10.6	10.0	9.2	9.2		6.4	6.4	
100	17.0	17.4	18.0	12.0	10.6	10.0	9.2	9.2	7.8	6.4	6.4	
105	16.6	17.0	17.4	12.0	10.6	10.0	9.2	9.2	7.8	6.4	6.4	6.4
110	16.2	16.6	16.6	11.8	10.4	10.0	9.2	9.2	7.8	6.4	6.4	6.4
115	15.6	15.8	16.0	11.8	10.4	9.8	9.2	9.0	7.8	6.4	6.4	6.4
120	14.6	15.0	15.2	11.6	10.4	9.8	9.2	8.8	7.8	6.4	6.4	6.4
125	13.8	14.0	14.4	11.6	10.4	9.8	9.2	8.6	7.8	6.4	6.2	6.2
130	13.0	13.2	13.8	11.6	10.4	9.6	9.2	8.6	7.8	6.4	6.2	6.2
135	12.4	12.6	13.0	11.4	10.2	9.6	9.0	8.4	7.8	6.4	6.0	6.0
140	11.6	12.0	12.4	11.0	10.2	9.6	8.8	8.2	7.8	6.2	6.0	5.8
145	11.0	11.2	11.8	10.4	10.0	9.4	8.6	8.0	7.6	6.2	5.8	5.8
150	10.4	10.6	11.0	10.0	9.8	9.4	8.4	8.0	7.6	6.0	5.8	5.6
155	9.6	10.0	10.4	9.4	9.6	9.4	8.0	7.8	7.4	5.8	5.6	5.6
160	8.6	9.0	9.4	9.0	9.2	9.2	7.8	7.6	7.4	5.8	5.4	5.4
165	7.6	8.2	8.4	8.6	9.0	9.2	7.6	7.4	7.2	5.6	5.4	5.2
170	6.8	7.2	7.4	8.0	8.6	8.8	7.2	7.2	7.0	5.4	5.2	5.2
175	6.0	6.4		7.6	8.0	8.4	6.8	6.8	6.8	5.2	5.2	5.0
180	5.2	5.6		6.8	7.6	8.0	6.6	6.6	6.8	5.0	5.0	5.0
185	4.4	4.8		6.0	7.0	7.6	6.2	6.4	6.6	5.0	5.0	4.8
190	3.8	4.0		5.4	6.2	6.8	5.6	6.0	6.4	4.8	4.8	4.8
195	3.2	3.4		4.8	5.4	6.0	4.8	5.8	6.2	4.6	4.6	4.6
200	2.6	2.8		4.2	4.8	5.2	4.2	5.0	5.8	4.2	4.4	4.6
205				3.6	4.2		3.6	4.4	5.0	3.6	4.2	4.4
210				3.0	3.6		3.2	3.8	4.4	3.0	4.0	4.2
215				2.4	3.0		2.6	3.2	3.6	2.6	3.4	4.0
220					2.4			2.6			2.8	3.4
225								2.2			2.2	2.8
230												2.2

197 ft. (60.0 m)	43-72-98-125 ft. (13-22-30-38 m)	94,700 lbs. (43,000 kg)	100% 27'11" Spread	360°				
	Pounds (thousands)							
	43 FT		72 FT		98 FT		125 FT	
Feet	5° - 20°	20° - 40°	5° - 20°	20° - 40°	5° - 20°	20° - 40°	5° - 20°	20° - 40°
55	16.8							
60	16.8							
65	16.8							
70	16.8	16.4						
75	16.8	16.4	10.0					
80	16.8	16.4	9.8					
85	16.6	16.4	9.8					
90	16.4	16.4	9.8		8.4		5.8	
95	16.2	16.4	9.6	9.2	8.4		5.8	
100	15.8	16.2	9.6	9.0	8.4	7.0	5.8	
105	15.4	15.8	9.6	9.0	8.4	7.0	5.8	5.8
110	15.0	15.2	9.6	9.0	8.4	7.0	5.8	5.8
115	14.4	14.4	9.4	9.0	8.2	7.0	5.8	5.8
120	13.6	13.8	9.4	9.0	8.0	7.0	5.8	5.8
125	12.8	13.2	9.4	8.8	7.8	7.0	5.8	5.8
130	12.0	12.4	9.4	8.8	7.8	7.0	5.6	5.6
135	11.4	11.8	9.4	8.6	7.6	7.0	5.6	5.4
140	10.8	11.2	9.4	8.6	7.4	7.0	5.4	5.4
145	10.2	10.6	9.2	8.6	7.4	7.0	5.4	5.2
150	9.6	10.0	9.0	8.6	7.2	6.8	5.2	5.2
155	8.6	9.2	8.6	8.4	7.0	6.8	5.2	5.0
160	7.8	8.2	8.4	8.4	7.0	6.6	5.0	5.0
165	7.0	7.4	8.2	8.4	6.8	6.6	4.8	4.8
170	6.2	6.6	7.6	8.0	6.6	6.4	4.8	4.8
175	5.4		6.8	7.6	6.2	6.2	4.6	4.6
180	4.8		6.2	7.0	6.0	6.2	4.6	4.6
185	4.0		5.6	6.4	5.6	6.0	4.4	4.4
190	3.4		4.8	5.6	5.0	5.8	4.4	4.4
195	2.8		4.4	5.0	4.4	5.2	4.2	4.2
200	2.4		3.8	4.4	3.8	4.6	3.8	4.2
205			3.2		3.4	4.0	3.4	4.0
210			2.8		2.8	3.4	2.8	3.6
215			2.2		2.4	3.0	2.4	3.0
220								2.6

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.



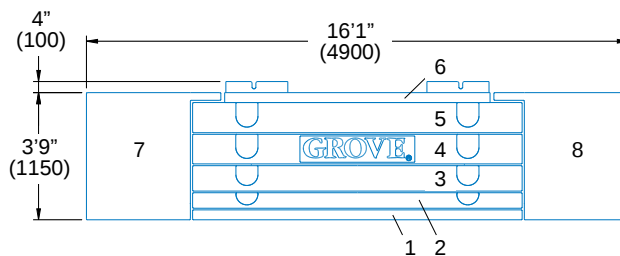
Boom extension configurations



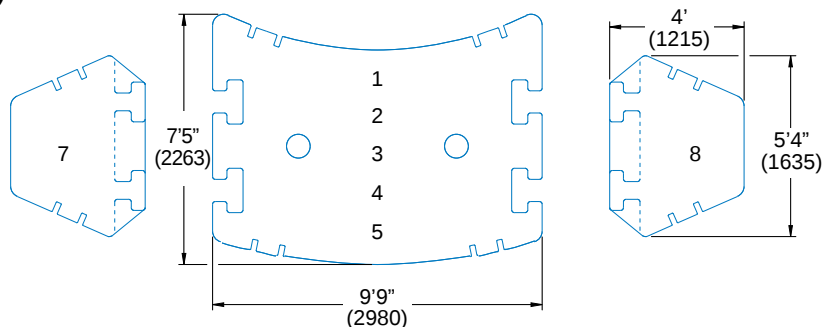
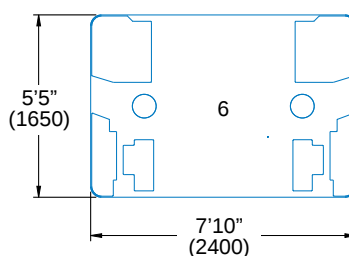
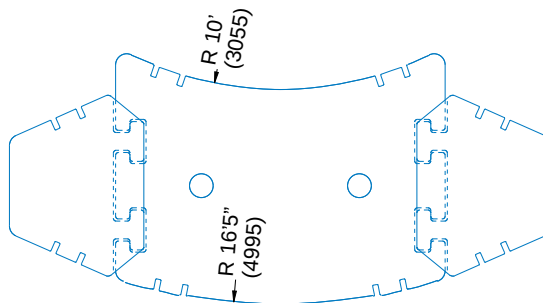
Length (ft.)	Intermediate section boom extension make-up			
	26' (8 m)	6'7" (2 m)	34'5" (10.5 m)	29'6" (9 m)
43	—	1x	1x	—
72	—	1x	1x	1x
98	1x	1x	1x	1x
125	2x	1x	1x	1x



Counterweight configurations



1. 9,700 lbs. (4,400 kg)
2. 11,200 lbs. (5,100 kg)
3. 18,700 lbs. (8,500 kg)
4. 24,300 lbs. (11,000 kg)
5. 23,100 lbs. (10,500 kg)
6. 7,700 lbs. (3,500 kg)
7. 22,050 lbs. (10,000 kg)
8. 22,050 lbs. (10,000 kg)



Note: () Reference dimensions in mm

	1	2	3	4	5	6	7	8
9,700 lbs	X							
20,900 lbs.	X	X						
28,600 lbs.	X	X				X		
47,300 lbs.	X	X	X			X		
71,600 lbs.	X	X	X	X		X		
94,700 lbs.	X	X	X	X	X	X		
138,800 lbs.	X	X	X	X	X	X	X	X



Rated Lifting Capacities

IMPORTANT NOTES:

WARNING: THIS CHART IS ONLY A GUIDE.

The notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

1. All rated loads up to 420,000 pounds meet ANSI/ASME B30.5, Mobile and Locomotive Cranes. Testing and development were performed to SAEJ1063, Cantilevered Boom Crane Structures - Method of Test and SAEJ765 Crane Stability Test Code.

2. Capacities given do not include the weight of hook blocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.

3. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.

4. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or next longer or shorter boom length shall be used.

5. For outrigger operation, outriggers shall be properly extended with tires raised off the ground before operating the boom or lifting loads.

† Comparative Rating

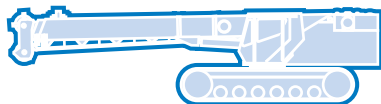
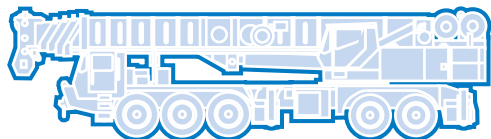
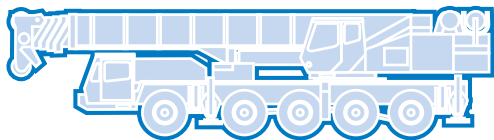
A rating designation based upon the premise that large capacity European cranes are typically purchased and used as long boom, high reach, long radius lift cranes not as heavy lift cranes.

To provide a GMK 6220 crane with the necessary equipment to achieve maximum lift capacity will drastically reduce long boom performance.

Therefore, augmenting lifting equipment is required for buyers who require such capacities.

Symbols Glossary

	Frame		Steering
	Outriggers		Transmission
	Outrigger Controls		Axles
	Engine		Brakes
	Fuel Tank Capacity		Tires
	Electrical System		Suspension
	Drive		Rotation
	Lights		Boom Elevation
	Cab		Swing
	Boom		Counterweight
	Fixed Swingaway		Oil
	Tele-Swingaway		Hydraulic System
	Lattice Extension (Luffing)		Hoist
	Boom Nose		Radius
	Boom Extension		Boom Length
	Speed		Hookblock
	Grade		Gear
	Lattice Extension		Luffing Jib



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