



GROVE GMK5165

maximcrane.com

product guide

features

- 165-ton (130 mt) capacity
- 42-197 ft. (12.9-60 m) 6-section full power boom
- 42-197 ft. (12.9-60 m) 6-section full power boom
- Patented TWIN-LOCK™ boom pinning system
- 36-59 ft. (11-18 m) bifold lattice swingaway, hydraulic luffing or manual offset
- 88,400 lb. (40 000 kg) counterweight with hydraulic removal system
- 510 hp (380 kW) Mercedes OM 502 LA 8 cylinder turbo-charged diesel engine. Daimler Chrysler, 16 speed G240-16 transmission
- Independent hydro-pneumatic MEGATRAK™ suspension
- All wheel steering

contents

Features	2
Specifications	3
Dimensions	5
Counterweight Dimensions	6
Travel Proposal	7
Working Range Main Boom	8
Main Boom Charts	9
Load Charts	10
Working Range Manual Offset Swingaway	11
Working Range Hydraulic Offset Swingaway	12
Hydraulic Offset Swingaway Charts	13
Manual Offset Swingaway Charts	14



All Terrain Crane



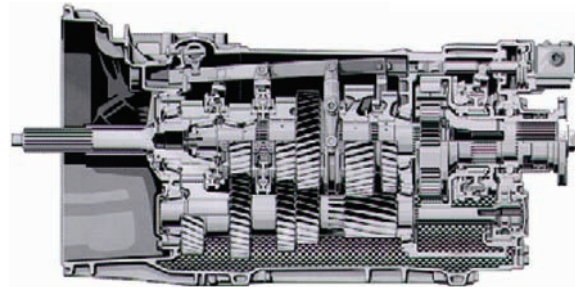
Grove (Image 1) Created: 3/23/11 3:54 PM By: QuarkXPress (m) 6.5
2400.0 dpi (Averara 30 NEG, Wrong-Reading, Color-Seqs, Erh-QV2 Stimulated Spot Colors) I Trae ABO:100 Scaling Percent: F 100 WD 100 H 100 Vrsi\luc\ c:150615 M:150675 Y:15066 K:150645 J bleed: 0.125 margin size: 0.375
Cyan Magenta Yellow Black
PS Version: 3015.102 EQX Version 6.3 Revision 6.3 Revisor: 0 RSI System 5.4 Build: #62, Ripped on Friday, March 23, 2007 02:35:27 PM
ID: Vornie

features

2

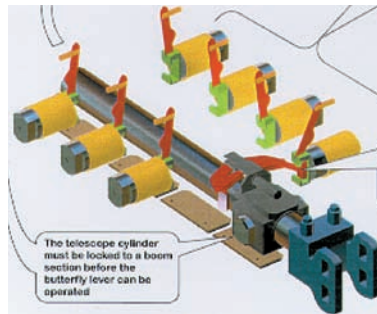


Mercedes-Benz OM 502 LA
510 bhp (380 kW) @ 1800 rpm
1770 ft./lb. torque (2400 Nm) @ 1200 rpm



Daimler Chrysler
16 speed G240-16

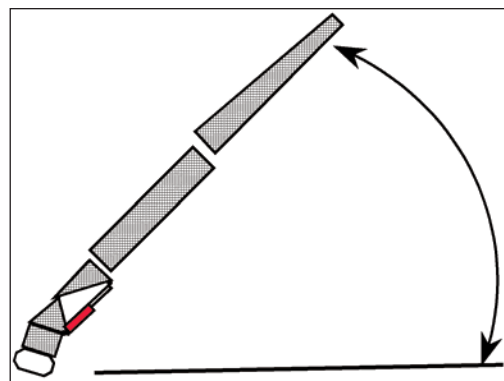
TWIN-LOCK™
Boom pinning
mechanism
automatically pins
the sections in
position using two
horizontal large
diameter boom
pins



MEGATRAK™
Independent
suspension and
all wheel steer
system allows
wheels to
remain on the
ground at all
times so
stresses and
weight are not
continually
transferred
between axles

LUFFING BI-FOLD SWINGAWAY

Hydraulically offset lattice bi-fold swingaway
lets the operator set the offset from 0°-40°
while under load, from the superstructure cab



specifications

Superstructure



Boom

42 ft. - 197 ft. (12.9 m - 60 m) six section, full power boom with patented TWIN-LOCK™ boom pinning system. Maximum tip height: 207 ft. (63 m).



Boom Nose

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



Boom Elevation

Single lift cylinder with safety valve provides boom angle from -3° to +83°.



Hydraulically Offsettable Lattice Extension

36 ft. - 59 ft. (11 m - 18 m) bifold lattice swingaway extension **hydraulically offsettable** and luffing under load: 0° - 40°. Controlled from the crane cab. Maximum tip height: 266 ft. (81 m)



* Offsettable Lattice Extension

36 ft. - 59 ft. (11 m - 18 m) bifold lattice swingaway extension manually offset: 0°, 20° or 40°. Maximum tip height: 266 ft. (81 m)



Lattice Extension Inserts

One 26 ft. (8 m) and one 20 ft. (6 m) insert for use with lattice swingaway extension. Increases extension length to 85 ft. (26 m) or 105 ft. (32 m).



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 with acoustical lining, tinted safety glass, adjustable operator's seat with hydraulic suspension, opening windows in side and cab rear, hinged front window with wiper, sunvisor and window shade. Other features include hot water heater, armrest integrated crane controls, and ergonomically arranged instrumentation.



Crane Control System

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



Swing

Two planetary gears with axial piston motors. Infinitely variable to 1.7 rpm. Holding and service brake.



Counterweight

88,400 lbs. (40 000 kg) consisting of various sections with hydraulic installation/removal system. Controlled from the superstructure cab.



Engine

Mercedes-Benz OM 904 LA diesel, 4 cylinders, water cooled, turbocharged with 174 bhp (130 kW) @ 2200 rpm. Max torque: 498 ft/lb. (675 Nm) at 100 rpm. Engine emission: EUROMOT/EPA/CARB (non road).



Hydraulic System

2 separate circuits, 1 axial piston variable displacement pump (load sensing) with electronic power limiting control and 1 gear pump for swing. Dual thermostatically controlled oil coolers keep oil at optimum operating temperature. Tank capacity: 211 gal. (800 l)



Hoist

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

	Main	Auxiliary
Line length:	837 ft. (255 m)	591 ft. (180 m)
Rope diameter:	19 mm	19 mm
Line speed:	394 ft./min. (120 m/min)	394 ft./min. (120 m/min)
Line pull:	15,700 lbs. (70 kN)	15,700 lbs. (70 kN)



Electrical System

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

*Optional Equipment

- *Work light, mounted on top of base section.
- *Cab controlled work lights mounted to top of base section.
- *Stainless steel exhaust system with spark arrestor in lieu of standard.
- *Engine independent diesel cab heater, also serves as engine preheater.
- *24 hr. timer for diesel preheater.
- *Engine independent propane gas cab heater.
- *Stereo/radio CD player.
- *Outtrigger pad load indicator with readout both in superstructure cab and carrier.
- *Air conditioning.
- *Data Logger (Superstructure Only).
- *Working range limiter.
- *Boom mounted aircraft warning light.

*Denotes optional equipment

3

GMK5165

GROVE

specifications

4

Carrier



Chassis

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



Outrigger System

Four hydraulic single stage outrigger beams with vertical cylinders and outrigger pads, 23.6" (600 mm) square.

Outriggers can be set in 3 positions:

Full	- 24.6' (7.5 m)
Partial	- 16.7' (5.1 m)
Retracted	- 8.2' (2.5 m)

Independent horizontal and vertical movement controlled from each side of carrier. Electronic crane level indicators.



Engine

Mercedes-Benz OM 502 LA eight cylinder, water cooled, turbo-charged, with 510 bhp (380 kW) @ 1800 rpm. Max. torque 1,770 ft./lb. (2 400 Nm) @ 1200 rpm.

Engine emissions: EUROMOT/EPA/CARB (off road)

Compression and exhaust brakes.



Fuel Tank Capacity

106 gallons (400 L).



Transmission

Daimler Chrysler, 16 speed G240-16.



Drive/Steer

10X8X10



Axles

1st axle line – steer

2nd axle line – steer (additional drive)

3rd axle line – drive/steer (disconnects for highway travel 10x8x10 drive only)

4th axle line – drive/steer (connects for all wheel steer)

5th axle line – drive/steer

Drive axles with planetary hub reduction and center mounted differential-gearing. Inter-axle and cross axle differential locks.



Suspension

Exclusive MEGATRAK suspension. Independent hydro-pneumatic system acting on all wheels with hydraulic lockout. Suspension can be raised 6.5" (170 mm) or lowered 5" (130 mm) both longitudinally and transversely. Features an automatic leveling system for highway travel.



Tires

10 tires, 20.5R25



Steering

Dual circuit, hydraulic power assisted steering system. Transfer case mounted, ground driven emergency steering pump. Axles 1, 2, 3 and 5 steer on highway. Separate steering of the 4th and 5th axles for all wheel and crab steering, controlled by an electronic rocker switch.



Brakes

Service brakes: pneumatic dual circuit acting on all wheels, anti lock prevention.

Parking brake: pneumatically operated spring loaded brake acting on axle lines 2 and 5.

Air dryer.



Cab

Two-man, aluminum construction with the following features: safety glass, driver and passenger seats with hydraulic suspension, heated rear view mirrors, hot water heater, complete instrumentation and driving controls.



Electrical System

24V system with three phase alternator, 28V/100A

2 batteries, 12V/170 Ah



Maximum Speed

53 mph (85 kph)



Gradeability (Theoretical)

72% - 14.00 tires

64% - 16.00/20.5 tires

Miscellaneous Standard Equipment

Work light; tool kit; fire extinguisher; auxiliary boom nose; radio/CD player in carrier cab, heated rear view mirrors, and cruise control.

Optional Equipment

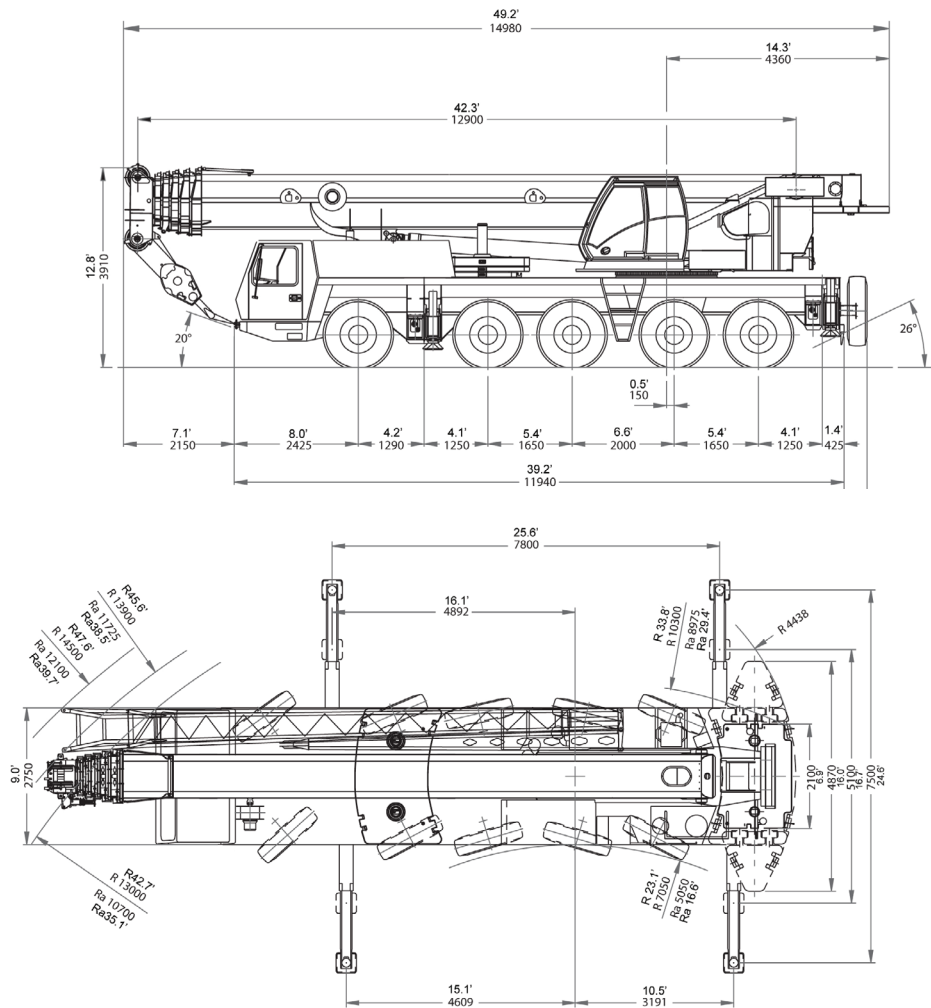
- *Stainless steel exhaust system with spark arrestor
- *Air conditioning
- *16.00R25 tires (vehicle width 9.8 ft., 3 m)
- *10X6X10 drive/steer
- *Electric driveline retarder
- *Engine independent diesel cab heater, with engine pre-heater
- *24 hr. timer for diesel preheater
- *Engine independent propane gas cab heater
- *Worklights for outriggers
- *Steel outrigger floats
- *Data Logger (Carrier Only)
- *Spare tire with carry bracket

*Denotes optional equipment

GMK5165

dimensions

5



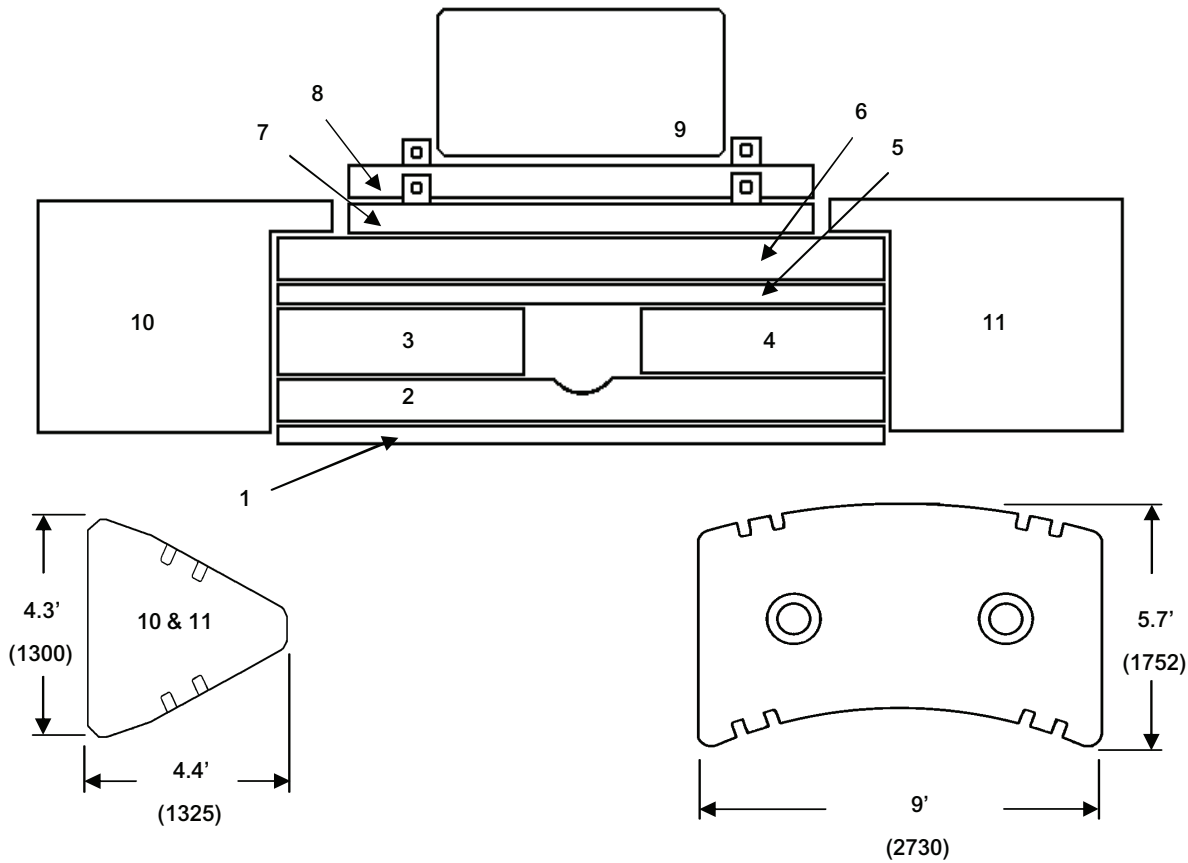
Ra = Radius all wheels steered

Basic Weights - lb. (kg.)	Axles 1-3		Axles 4 & 5		Total	
Mercedes power, 20.5R25 tires, 10X6X10 drive/steer, 2nd oil cooler, outrigger pads, auxiliary hoist and driver.	66,528	(30 177)	43,415	(19 693)	109,943	(49 870)
Additions:						
10X8X10 drive /steer	772	(350)	22	(10)	794	(360)
Electric driveline retarder	-66	(- 30)	727	(330)	661	(300)
14.00R25 spare tire with bracket	-340	(-154)	924	(419)	584	(265)
16.00R25 spare tire with bracket	-423	(-192)	1,140	(517)	715	(325)
20.5R25 spare tire with bracket	-487	(-221)	1,296	(588)	809	(367)
Brackets for swingaway	183	(83)	71	(32)	254	(115)
Hose reel for luffing swingaway	523	(237)	-203	(-92)	320	(145)
36 ft. - 56 ft. (11 m - 18 m) swingaway	3,982	(1 806)	-829	(-376)	3,153	(1 430)
Auxiliary boom nose	364	(165)	-209	(-95)	154	(70)
5,500 lb. (2 500 kg.) section 8 pinned to superstructure	-3,045	(-1 381)	8,556	(3 881)	5,512	(2 500)
5,500 lb. (2 500 kg.) section 1 stowed on carrier	5,020	(2 277)	205	(93)	5,225	(2 370)
Substitutions						
14.00R25 tires	-1,349	(-612)	-900	(-408)	-2,249	(-1 020)
16.00R25 tires	-555	(-252)	-371	(-168)	-926	(-420)
Removals:						
Boom assembly	-32,522	(-14 752)	-1,076	(-488)	-33,598	(-15 240)
Front outriggers	-3,757	(-1 704)	626	(284)	-3,131	(-1 420)
Rear outriggers	1,437	(652)	-4,744	(-2 152)	-3,307	(-1 500)
Front and rear outrigger floats	-168	(-76)	-273	(-124)	-441	(-200)

GMK 5165

counterweight

6



1. 5,500 lb.(2 500 kg.) Baseplate
2. 11,000 lb.(5 000 kg.) Stacking
3. 8 300 lb.(3 750 kg.) Stacking
4. 8,300 lb.(3 750 kg.) Stacking
5. 5,500 lb.(2 500 kg.) Stacking
6. 11,000 lb.(5 000 kg.) Stacking

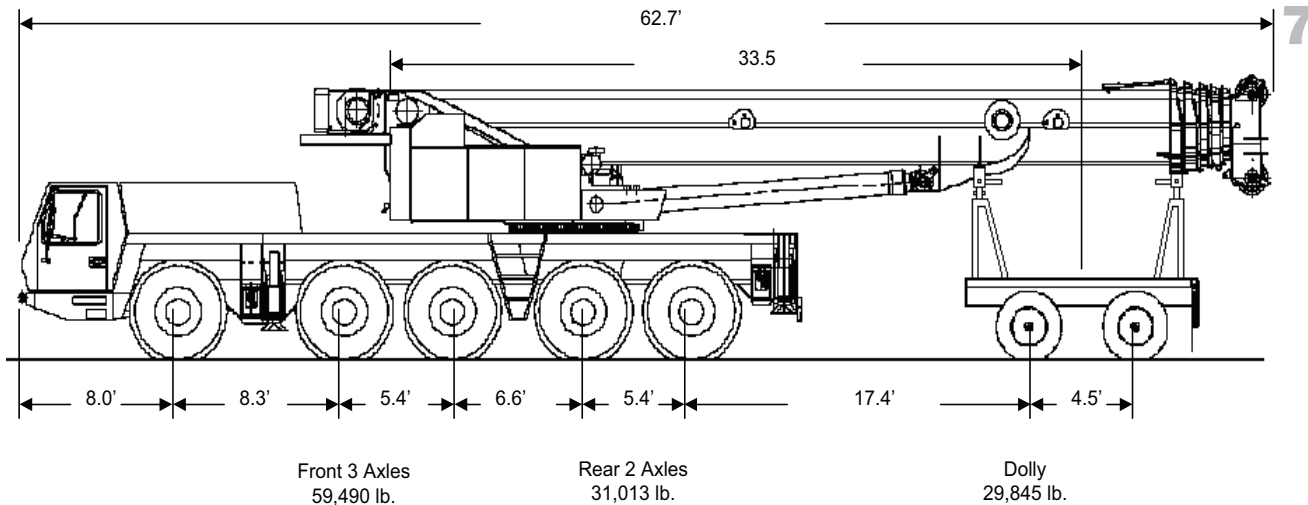
7. 5,500 lb.(2 500 kg.) Pinned
8. 5,500 lb.(2 500 kg.) Pinned
9. 2,200 lb.(1 000 kg.) Bolted (Auxiliary Hoist or IPO)
10. 12,700 lb.(5 770 kg.) Wing
11. 12,700 lb.(5 770 kg.) Wing

	1	2	3	4	5	6	7	8	9	10	11
Counterweight Configuration lb.(kg.)											
2,200 (1 000)									•		
7,700 (3 500)								•	•		
13,200 (6 000)							•	•	•		
18,700 (8 500)	•						•	•	•		
24,200 (11 000)	•		•	•					•		
29,700 (13 500)	•		•	•				•	•		
35,200 (16 000)	•		•	•			•	•	•		
40,700 (18 500)	•	•	•	•				•	•		
46,200 (21 000)	•	•	•	•			•	•	•		
51,800 (23 500)	•	•	•	•	•		•	•	•		
57,300 (26 000)	•	•	•	•		•	•	•	•		
62,800 (28 500)	•	•	•	•	•	•	•	•	•		
88,400 (40 100)	•	•	•	•	•	•	•	•	•	•	•

GMK5165

trailing boom proposal

Trailing Boom



Unit Configuration:

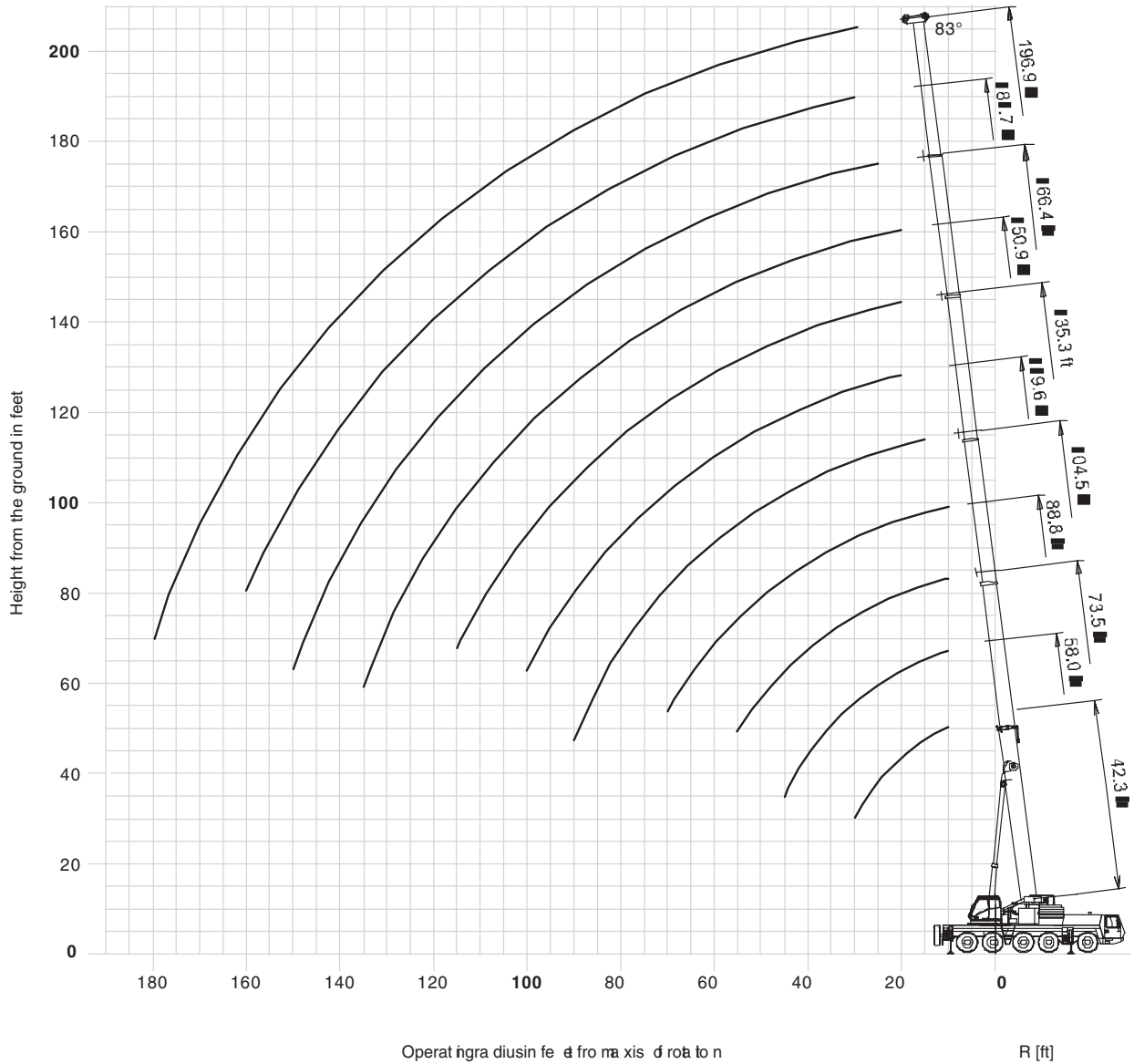
- 42' – 197' boom
- Outrigger pads stowed on unit
- 10 X 8 X 10 drive/steer
- Main and auxiliary hoists with cable
- 36 – 59 ft. hydraulic luffing swingaway
- Additional oil cooler
- 20.5 tires
- 2 axle boom dolly (5,700 lb.)

GMK5165

working range

42'-197' main boom

8



GMK5165

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.

GROVE

load charts

42-197 ft.
(12.8-60.0 m)

88,400 lb.
(40,100 kg)

100%
24'7" Spread

360°

Feet	42'	58'	73'	89'	104'	119'	135'	150'	166'	181'	197'
8	*240.0										
10	215.0	199.0	186.0	143.0							
15	168.0	165.0	154.0	143.0	110.0						
20	136.0	137.0	132.0	125.0	108.0	84.0	62.0	45.0			
25	113.0	114.0	114.0	110.0	98.0	78.0	62.0	45.0			
30	92.0	97.0	96.0	95.0	90.0	72.0	61.0	45.0	35.2	25.6	22.0
35		83.0	83.0	82.0	82.0	66.0	56.0	45.0	35.2	25.6	22.0
40		72.0	72.0	71.0	72.0	60.0	51.0	45.0	35.2	25.6	22.0
45		61.0	64.0	62.0	61.0	56.0	47.0	41.4	35.2	25.6	22.0
50			56.0	56.0	53.0	52.0	42.6	38.4	34.8	25.6	22.0
55			48.0	50.0	47.0	47.0	39.2	35.6	32.4	25.6	22.0
60				43.4	41.4	42.2	35.8	32.8	29.8	25.6	22.0
65				38.2	37.6	37.8	32.6	29.8	27.8	25.6	22.0
70				34.0	35.4	34.0	30.2	27.4	25.8	24.4	21.6
75				27.2	32.0	30.8	28.0	25.4	24.0	23.0	20.6
80					29.0	27.6	26.4	23.8	22.2	21.4	19.6
85					26.2	24.8	25.2	22.0	20.8	20.0	18.6
90					23.8	22.4	23.8	20.8	19.4	18.8	17.8
95						21.0	21.6	19.0	18.2	17.6	17.0
100						20.0	19.6	17.0	17.0	16.4	16.0
105							18.0	15.8	15.6	15.0	14.8
110							16.4	14.8	14.2	13.8	13.6
115							15.0	14.0	12.8	12.8	12.8
120								13.4	11.6	12.0	12.0
125								12.8	10.4	11.6	11.4
130								12.2	9.8	11.0	10.8
135								11.2	9.4	10.4	10.0
140									8.8	10.0	9.0
145									8.4	9.2	8.2
150									8.0	8.4	7.4
155										7.8	6.8
160										7.0	6.0
165											5.4
170											4.8
175											4.4
180											3.8

*Over rear

42-197 ft.
(12.8-60.0 m)

46,200 lb.
(21,000 kg)

100%
24'7" Spread

360°

Feet	42'	58'	73'	89'	104'	119'	135'	150'	166'	181'	197'
10	210.0	199.0	186.0	143.0							
15	164.0	163.0	154.0	143.0	110.0						
20	131.0	132.0	131.0	124.0	108.0	84.0	62.0	45.0			
25	107.0	108.0	101.0	93.0	89.0	78.0	62.0	45.0	35.2		
30	85.0	85.0	78.0	76.0	70.0	69.0	61.0	45.0	35.2	25.6	22.0
35		68.0	65.0	62.0	61.0	57.0	53.0	45.0	35.2	25.6	22.0
40		55.0	54.0	51.0	51.0	48.0	44.0	42.8	35.2	25.6	22.0
45		46.0	46.0	45.0	43.8	40.6	41.0	36.4	35.2	25.6	22.0
50			40.0	40.2	37.8	35.6	35.6	31.2	30.6	25.6	22.0
55			34.8	35.2	33.0	32.8	31.0	28.2	26.6	25.6	22.0
60				30.6	29.0	29.8	27.4	26.4	23.2	23.8	22.0
65				26.6	25.8	26.4	24.2	24.4	21.6	22.4	21.0
70				23.4	22.6	23.8	21.6	21.8	20.2	20.4	18.8
75				15.0	19.8	21.4	19.2	19.4	19.0	18.2	16.6
80					17.6	19.0	17.2	17.6	17.8	16.4	14.8
85					15.4	16.8	15.4	15.8	16.0	14.8	13.2
90					13.8	15.0	13.8	14.2	14.4	13.2	11.8
95						13.6	12.2	13.2	13.2	11.8	10.4
100						12.8	11.0	12.4	11.8	10.8	9.4
105							10.4	11.4	10.8	9.6	8.2
110							9.8	10.4	9.8	8.6	7.2
115							9.2	9.2	8.6	7.8	6.4
120								8.4	7.8	7.0	5.6
125								7.6	6.8	6.0	4.8
130								6.8	6.0	5.4	4.2
135								6.0	5.4	4.6	3.6
140									4.8	4.0	3.0
145									4.0	3.4	2.4
150									3.6	2.8	
155										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.

load charts

10



42-197 ft.
(12.8-60.0 m)



2,200 lb.
(1000 kg)



100%
24'7" Spread



360°

	 Pounds (thousands)										
Feet	42'	58'	73'	89'	104'	119'	135'	150'	166'	181'	197'
10	205.0	199.0	186.0	143.0							
15	153.0	141.0	123.0	113.0	99.0						
20	93.0	87.0	81.0	78.0	71.0	64.0	58.0	45.0			
25	64.0	63.0	61.0	57.0	53.0	52.0	47.0	41.8	35.2		
30	46.0	47.0	46.0	43.8	40.2	40.0	36.0	36.2	29.8	25.6	22.0
35		36.2	36.6	36.4	31.8	33.8	31.8	29.8	27.6	24.2	22.0
40		28.4	29.2	29.4	28.4	27.6	26.0	24.4	22.4	20.4	18.2
45		22.0	23.8	24.2	23.8	22.8	21.6	20.2	18.6	16.8	14.8
50			19.6	20.2	19.8	19.2	18.2	16.8	15.4	13.8	12.0
55			16.0	17.0	16.8	16.2	15.4	14.2	13.0	11.4	9.6
60				14.4	14.2	13.8	13.0	12.0	10.8	9.4	7.8
65				12.0	12.2	11.8	11.0	10.0	9.0	7.6	6.2
70				10.0	10.4	10.2	9.4	8.4	7.4	6.2	4.6
75					8.8	8.6	8.0	7.2	6.2	4.8	3.4
80					7.4	7.4	6.8	6.0	5.0	3.8	2.4
85					6.0	6.2	5.6	4.8	4.0	2.8	
90					5.0	5.2	4.6	4.0	3.0		
95						4.2	3.8	3.0	2.2		
100						3.4	3.0	2.4			
105							2.2				

GMK5165

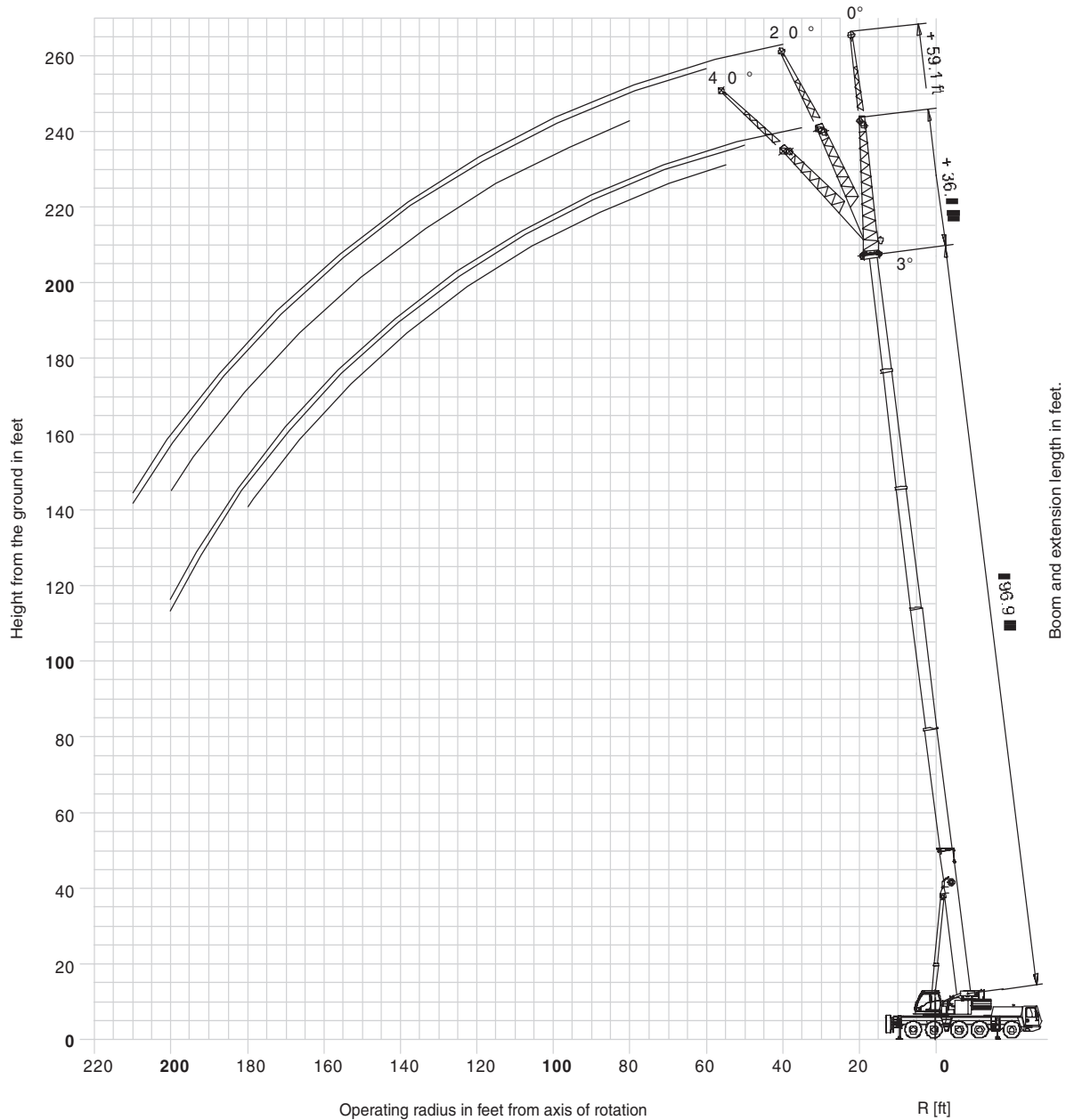
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

working range

manual offset swingaway

42'-197' main boom

11



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.

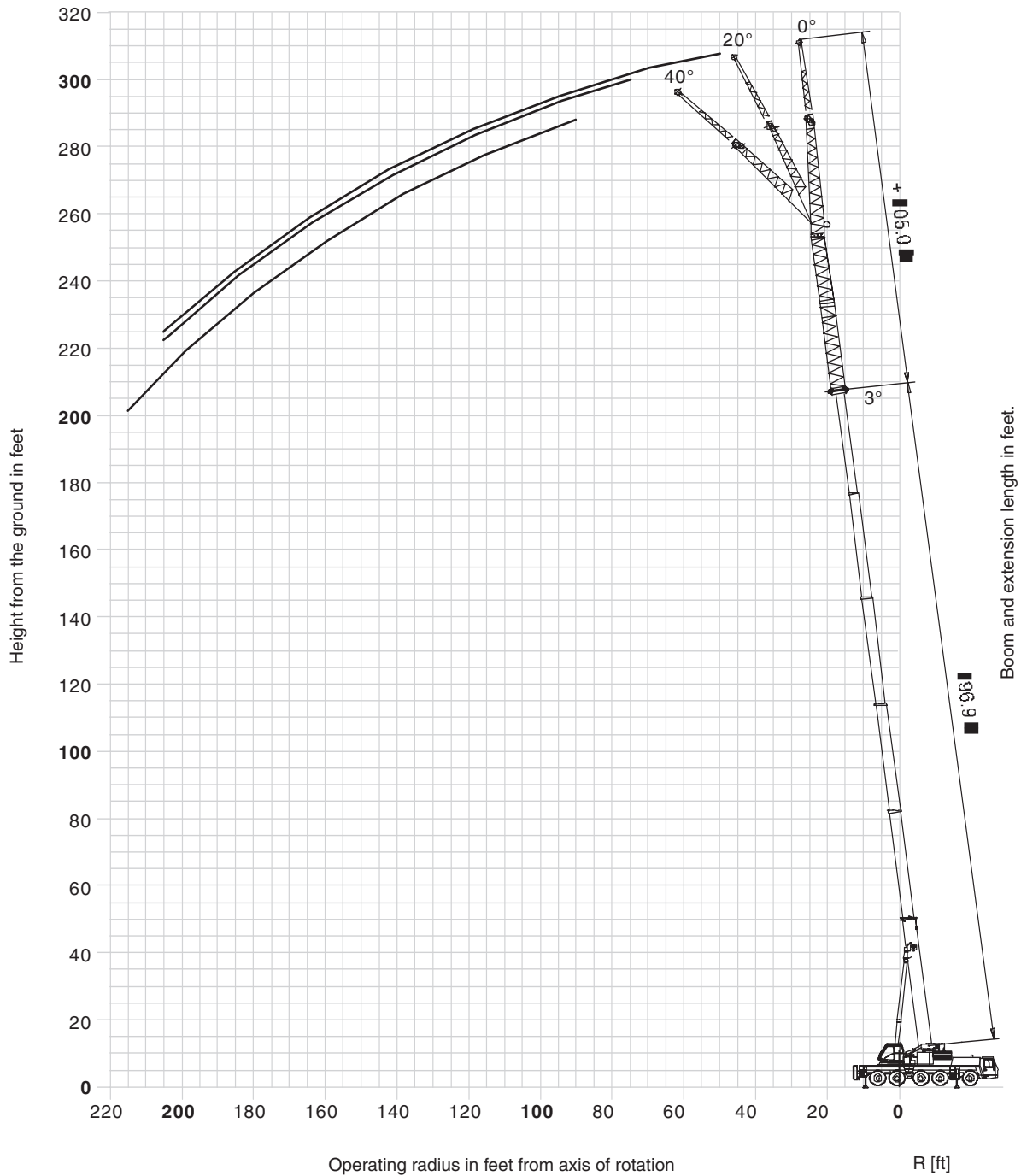
GMK5165

working range

hydraulic offset swingaway

42'-197' main boom

12



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.

GMK5165

GROVE

load charts

hydraulic offsettable swingaway

												
197 ft. (60.0 m)	36-59-85-105 ft. (11-18-26-32 m)	88,400 lbs. (40,100 kg)	100% 24'7" Spread	360°								
	 Pounds (thousands)											
Feet	0°	36 FT 0°-20°	20°-40°	0°	59 FT 0°-20°	20°-40°	0°	85 FT 0°-20°	20°-40°	0°	105 FT 0°-20°	20°-40°
20												
25												
30												
35	11.6											
40	11.6			8.0								
45	11.6			8.0								
50	11.6	11.6		8.0			5.6			4.2		
55	11.6	11.6	11.6	8.0			5.6			4.2		
60	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
65	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
70	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2		
75	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2	4.2	
80	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
85	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
90	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
95	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
100	11.4	11.4	11.4	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
105	11.0	10.8	11.0	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
110	10.6	10.4	10.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
115	10.0	10.0	10.0	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
120	9.6	9.6	9.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
125	9.2	9.2	9.2	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
130	8.8	8.8	8.8	7.8	7.8	8.0	5.6	5.6	5.6	4.2	4.2	4.0
135	8.4	8.4	8.6	7.4	7.6	7.8	5.6	5.6	5.6	4.2	4.2	4.0
140	8.0	8.0	8.2	7.2	7.2	7.4	5.6	5.6	5.6	4.2	4.2	4.0
145	7.8	7.8	7.8	6.8	7.0	7.2	5.6	5.6	5.6	4.2	4.2	4.0
150	7.4	7.4	7.6	6.6	6.6	6.8	5.4	5.4	5.6	4.2	4.2	4.0
155	6.8	6.8	7.2	6.4	6.4	6.6	5.0	5.2	5.6	4.2	4.2	4.0
160	6.2	6.2	6.6	6.0	6.2	6.4	4.8	5.0	5.2	4.0	4.2	4.0
165	5.4	5.4	6.0	5.8	6.0	6.2	4.6	4.8	5.0	3.8	4.0	4.0
170	5.0	5.0	5.2	5.6	5.6	5.8	4.4	4.6	4.8	3.6	3.8	4.0
175	4.4	4.4	4.8	5.2	5.2	5.6	4.2	4.4	4.6	3.4	3.6	4.0
180	3.8	3.8	4.2	4.6	4.6	5.4	4.0	4.2	4.4	3.2	3.4	3.8
185	3.4	3.4		4.0	4.0	4.8	3.8	4.0	4.2	3.0	3.2	3.6
190	2.8	2.8		3.6	3.6	4.2	3.6	3.6	4.0	3.0	3.2	3.4
195	2.4	2.4		3.2	3.2	3.8	3.2	3.2	3.8	2.8	3.0	3.2
200	2.0	2.0		2.8	2.8	3.2	2.8	2.8	3.4	2.6	2.6	3.0
205				2.4	2.4		2.4	2.4	3.0	2.2	2.2	
210				2.0	2.0		2.0	2.0	2.4			2.8
215									2.0			2.4
220												2.0
225												

13

												
197 ft. (60.0 m)	36-59-85-105 ft. (11-18-26-32 m)	46,200 lbs. (21,000 kg)	100% 24'7" Spread	360°								
	 Pounds (thousands)											
Feet	0°	36 FT 0°-20°	20°-40°	0°	59 FT 0°-20°	20°-40°	0°	85 FT 0°-20°	20°-40°	0°	105 FT 0°-20°	20°-40°
20												
25												
30												
35	11.6											
40	11.6			8.0								
45	11.6			8.0								
50	11.6	11.6		8.0			5.6			4.2		
55	11.6	11.6	11.6	8.0			5.6			4.2		
60	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
65	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
70	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2		
75	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2	4.2	
80	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
85	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
90	11.0	11.0	11.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
95	9.8	9.8	11.0	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
100	8.8	8.8	9.8	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
105	7.8	7.8	8.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
110	6.8	6.8	7.6	7.4	7.4	8.0	5.6	5.6	5.6	4.2	4.2	4.0
115	6.0	6.0	6.8	6.6	6.6	8.0	5.6	5.6	5.6	4.2	4.2	4.0
120	5.2	5.2	6.0	5.8	5.8	7.2	5.4	5.4	5.6	4.2	4.2	4.0
125	4.4	4.4	5.2	5.0	5.0	6.4	4.8	4.8	5.6	4.2	4.2	4.0
130	3.8	3.8	4.4	4.4	4.4	5.6	4.2	4.2	5.4	4.0	4.0	4.0
135	3.2	3.2	3.8	3.8	3.8	5.0	3.6	3.6	4.8	3.4	3.4	4.0
140	2.6	2.6	3.2	3.2	3.2	4.4	3.0	3.0	4.2	2.8	2.8	4.0
145	2.0	2.0	2.6	2.6	2.6	3.8	2.4	2.4	3.6	2.2	2.2	3.4
150			2.0	2.2	2.2	3.2	2.0	2.0	3.0			2.8
155						2.6			2.4			2.4
160						2.2			2.0			

GMK5165

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.

load charts

manual offsettable swingaway

14

     197 ft. (60.0 m) 36-59-85-105 ft. (11-18-26-32 m) 88,400 lbs. (40,100 kg) 100% 24'7" Spread 360°												
Pounds (thousands)												
Feet	0°	36 FT 20°	40°	0°	59 FT 20°	40°	0°	85 FT 20°	40°	0°	105 FT 20°	40°
20												
25												
30												
35	11.6											
40	11.6			8.0								
45	11.6			8.0								
50	11.6	11.6		8.0			5.6			4.2		
55	11.6	11.6	11.6	8.0			5.6			4.2		
60	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
65	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
70	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2		
75	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2	4.2	
80	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
85	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
90	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
95	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
100	11.4	11.4	11.4	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
105	11.0	10.8	11.0	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
110	10.6	10.4	10.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
115	10.0	10.0	10.0	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
120	9.6	9.6	9.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
125	9.2	9.2	9.2	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
130	8.8	8.8	8.8	7.8	7.8	8.0	5.6	5.6	5.6	4.2	4.2	4.0
135	8.4	8.4	8.6	7.4	7.6	7.8	5.6	5.6	5.6	4.2	4.2	4.0
140	8.0	8.0	8.2	7.2	7.2	7.4	5.6	5.6	5.6	4.2	4.2	4.0
145	7.8	7.8	7.8	6.8	7.0	7.2	5.6	5.6	5.6	4.2	4.2	4.0
150	7.4	7.4	7.6	6.6	6.6	6.8	5.4	5.4	5.6	4.2	4.2	4.0
155	6.8	7.0	7.2	6.4	6.4	6.6	5.0	5.2	5.6	4.2	4.2	4.0
160	6.2	6.6	6.8	6.0	6.2	6.4	4.8	5.0	5.2	4.0	4.2	4.0
165	5.4	6.0	6.2	5.8	6.0	6.2	4.6	4.8	5.0	3.8	4.0	4.0
170	5.0	5.2	5.4	5.6	5.6	5.8	4.4	4.6	4.8	3.6	3.8	4.0
175	4.4	4.8	4.8	5.2	5.4	5.6	4.2	4.4	4.6	3.4	3.6	4.0
180	3.8	4.2	4.2	4.6	5.2	5.4	4.0	4.2	4.4	3.2	3.4	3.8
185	3.4	3.6		4.0	4.8	5.0	3.8	4.0	4.2	3.0	3.2	3.6
190	2.8	3.2		3.6	4.2	4.6	3.6	3.8	4.0	3.0	3.2	3.4
195	2.4	2.6		3.2	3.8	4.0	3.2	3.6	3.8	2.8	3.0	3.2
200	2.0	2.2		2.8	3.2	3.4	2.8	3.4	3.6	2.6	2.8	3.0
205				2.4	2.8		2.4	3.0	3.2	2.2	2.6	2.8
210				2.0	2.4		2.0	2.4	2.8		2.4	2.6
215												
220												
225												2.0

     197 ft. (60.0 m) 36-59-85-105 ft. (11-18-26-32 m) 46,200 lbs. (21,000 kg) 100% 24'7" Spread 360°												
Pounds (thousands)												
Feet	0°	36 FT 20°	40°	0°	59 FT 20°	40°	0°	85 FT 20°	40°	0°	105 FT 20°	40°
20												
25												
30												
35	11.6											
40	11.6			8.0								
45	11.6			8.0								
50	11.6	11.6		8.0			5.6			4.2		
55	11.6	11.6	11.6	8.0			5.6			4.2		
60	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
65	11.6	11.6	11.6	8.0	8.0		5.6			4.2		
70	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2		
75	11.6	11.6	11.6	8.0	8.0		5.6	5.6		4.2	4.2	
80	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
85	11.6	11.6	11.6	8.0	8.0	8.0	5.6	5.6		4.2	4.2	
90	11.0	11.6	11.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
95	9.8	11.0	11.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
100	8.8	9.8	10.6	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
105	7.8	8.6	9.4	8.0	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
110	6.8	7.6	8.4	7.4	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
115	6.0	6.8	7.4	6.6	8.0	8.0	5.6	5.6	5.6	4.2	4.2	4.0
120	5.2	6.0	6.4	5.8	7.2	8.0	5.4	5.6	5.6	4.2	4.2	4.0
125	4.4	5.2	5.6	5.0	6.4	7.4	4.8	5.6	5.6	4.2	4.2	4.0
130	3.8	4.4	4.8	4.4	5.6	6.6	4.2	5.4	5.6	4.0	4.2	4.0
135	3.2	3.8	4.2	3.8	5.0	5.8	3.6	4.8	5.6	3.4	4.2	4.0
140	2.6	3.2	3.6	3.2	4.4	5.2	3.0	4.2	5.0	2.8	4.0	4.0
145	2.0	2.6	3.0	2.6	3.8	4.4	2.4	3.6	4.4	2.2	3.4	4.0
150		2.0	2.4	2.2	3.2	3.8	2.0	3.0	3.8		2.8	3.6
155					2.6	3.2		2.4	3.2		2.4	3.2
160					2.2	2.8		2.0	2.6			2.6
165						2.2			2.2			2.0
170												
175												
180												
185												

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.

notes

15

GMK5165

Regional Headquarters

Americas

Manitowoc, Wisconsin, USA

Tel: +1 920 684 6621

Fax: +1 920 683 6278

Shady Grove, Pennsylvania, USA

Tel: +1 717 597 8121

Fax: +1 717 597 4062

Regional Offices

Americas

Brazil

Alphaville

Tel: +55 11 4688 2716

Fax: +55 11 8489 4671

Mexico

Monterrey

Tel: +52 81 8124 0128

Fax: +52 81 8124 0129

Europe, Middle East, Africa

Algiers

Hydra

Tel: +21 3 21 48 1173

Fax: +21 3 21 48 1454

Czech Republic

Netvorice

Tel: +420 317 78 9313

Fax: +420 317 78 9314

France

Baudemont

Tel: +33 385 28 2589

Fax: +33 385 28 0430

Cergy

Tel: +33 130 31 3150

Fax: +33 130 38 6085

Decines

Tel: +33 472 81 5000

Fax: +33 472 81 5010

Germany

Langenfeld

Tel: +49 21 73 8909-0

Fax: +49 21 73 8909 30

Hungary

Budapest

Tel: +36 13 39 8622

Fax: +36 13 39 8622

Italy

Parabiago

Tel: +390 331 49 3311

Fax: +390 331 49 3330

Europe, Middle East, Africa

Ecully, France

Tel: +33 472 18 2020

Fax: +33 472 18 2000

Netherlands

Breda

Tel: +31 76 578 3999

Fax: +31 76 578 3978

Poland

Warsaw

Tel: +48 22 843 3824

Fax: +48 22 843 3471

Portugal

Alfena

Tel: +351 229 69 8840

Fax: +351 229 69 8848

Lisbon

Tel: +351 212 109 340

Fax: +351 212 109 349

Russia

Moscow

Tel: +7 495 641 2359

Fax: +7 495 641 2358

U.A.E.

Dubai

Tel: +971 4 3381 861

Fax: +971 4 3382 343

U. K.

Middlesex

Tel: +44 1 895 43 0053

Fax: +44 1 895 45 9500

Sunderland

Tel: +44 191 522 2000

Fax: +44 191 522 2052

Asia – Pacific

Australia

Melbourne

Tel: +61 3 9 336 1300

Fax: +61 3 9 336 1322

Sydney

Tel: +61 2 9 896 4433

Fax: +61 2 9 896 3122

Asia – Pacific

Shanghai, China

Tel: +86 21 51113579

Fax: +86 21 51113578

Singapore

Tel: +65 6264 1188

Fax: +65 6862 4142

China

Beijing

Tel: +86 10 64671690

Fax: +86 10 64671691

Xi'an

Tel: +86 29 87891465

Fax: +86 29 87884504

Korea

Seoul

Tel: +82 2 508 3361

Fax: +82 2 508 3365

Phillipines

Makati City

Tel: +63 2 844 9437

Fax: +63 2 844 4712

Factories

U.S.A.

Manitowoc

Shady Grove

Brazil

Alphaville

France

Charlieu

La Clayette

Moulins

India

Calcutta

Puna

Italy

Niella Tanaro

Germany

Wilhelmshaven

Portugal

Fânzeres

China

Zhangjiagang

