

GMK4115

product guide

features

- 115-ton (100 mt) capacity
- 37-171 ft. (11.3-52 m) 6 section full power Mega Form boom with Twin Lock pinning
- 33-56 ft. (10-17 m) hydraulic offset bi-fold swingaway
- 2 X 16 ft. (5 m) intermediate lattice inserts
- 57,500 lb. (26.1 t) counterweight with hydraulic removal system
- Chassis engine: Mercedes-Benz OM 460 LA, 396 hp (295 kW), torque 1401 ft./lb. (1900 Nm)
- Superstructure engine: Mercedes-Benz OM 904 LA, 148 hp (110 kW), torque 428 ft./lb. (580 Nm)
- MEGATRAK™ independent hydro-pneumatic suspension

contents

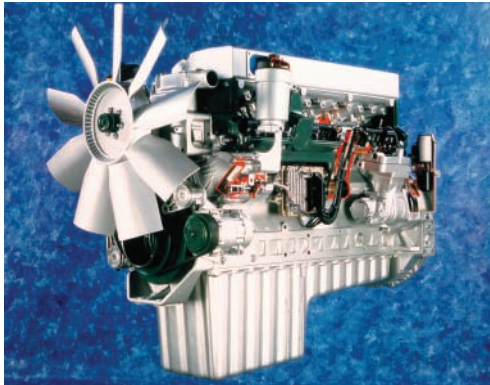
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All Terrain Crane

features

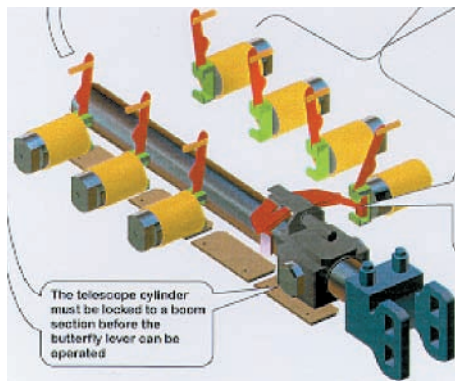
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Mercedes-Benz OM460 LA
396 bhp (295 kW) @ 1800 rpm
1401 ft./lb. torque (1900 Nm) @ 1200 rpm



SUPERSTRUCTURE CAB
Hydraulically offsets to 20°; all aluminum construction



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

3

Superstructure



Boom

37 ft. - 171 ft. (11.3 m - 52 m) 6 section, full power Mega Form boom with Twin Lock pinning.

Maximum tip height: 180 ft. (54.7 m)



Boom Nose

Seven 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 -1.5° to +82°.



Hydraulic Offsettable Lattice Extension

33 ft. - 56 ft. (10 - 17 m) bi-fold lattice swingaway extension, hydraulically offsettable and luffing under load, 0° - 40°.

Maximum tip height: 235 ft (71.7 m)



*Offsettable Lattice Extension

33 ft. - 56 ft. (10 - 17 m) bifold lattice swingaway extension, manually offsettable at 0°, 20° and 40°.

Maximum tip height: 235 ft. (71.7 m)



* Lattice Extension

Two 16 ft. (5 m) inserts for use with lattice swingaway extension to increase length to 72 ft. (22 m) or 89 ft. (27 m). Maximum tip height: 268 ft (81.7m)



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 constructed cab with acoustical lining, hydraulic tilted to 20°. Includes tinted safety glass, adjustable operator's seat with hydraulic suspension, opening windows at side and rear, hinged windshield with wiper, sun visor and window shade. Other features include hot water heater/defroster, armrest integrated crane controls, drive/steer 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

2 axial piston planetary gear boxes with fixed displacement motors. Infinitely variable to 1.9 rpm. Free swing with holding (rocker switch) and service (foot pedal) brake.



Counterweight

57,500 lbs. (26.1 t) consisting of various sections with hydraulic installation/removal system controlled from the superstructure cab.



Engine

Mercedes-Benz OM 904 LA direct injected, after cooled with 148 bhp (110 kW) @ 2200 rpm.

Max torque: 428 ft./lb. (580 Nm) @ 1200 rpm.

Engine emission: EUROMOT/EPA/CARB (non road)



Fuel Tank

Integrated in carrier fuel tank.



Hydraulic System

2 separate circuits, 1 axial piston variable displacement pump (load sensing) with electronic power limiting control and 1 gear pump for swing.

Thermostatically controlled oil coolers keep oil at optimum operating temperature.

Tank capacity: 158 gal. (600 l)



Hoist

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

	Main	Auxiliary
Line length:	837 ft. (255 m)	837 ft. (255 m)
Rope diameter:	17 mm	17 mm
Line speed:	394 ft./min. (120 m/min)	394 ft./min. (120 m/min)
Line pull:	12,589 lb. (56 kN)	12,589 lb. (56 kN)



Electrical System

24V system with three phase alternator, 28V/80A.

2 batteries 12V/170 Ah.

*Optional Equipment

- *Base boom mounted work lights
- *Boom mounted aircraft warning light
- *Stainless steel exhaust system with spark arrestor
- *Diesel heater, also serves as engine preheater
- *24 hour timer for preheater
- *Propane heater
- *Additional worklight for superstructure cab
- *Stereo radio/CD player
- *Air conditioning

*Denotes optional equipment

GMK4115

GROVE

specifications

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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, 19.7" (500 mm) square .

Outrigger can be set in 5 positions:

Full	- 23' (7 m)
Partial	- 19.6' (6 m)
Partial	- 16.4' (5 m)
Partial	- 13.2' (4 m)
Retracted	- 8.4' (2.6 m)

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

Engine

Mercedes-Benz OM 460 LA direct injected with 396 bhp (295 kW) @ 1800 rpm.

Max torque: 1401 ft./lb. (1900 Nm) @ 1300 rpm.

Engine emission: EUROMOT/EPA/CARB (non road)

Fuel Tank Capacity

106 gallons (400 L). Supplies superstructure and carrier engines.

Transmission

Daimler Chrysler, G240-16

16 forward and 2 reverse speeds

2 speed transfer case

Drive/Steer

8x6x8

Axles

1st axle line – drive/steer

2nd axle line – steer/(optional drive)

3rd axle line – drive/steer (connects for all-wheel steer)

4th axle line – drive/steer

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

Suspension

Grove exclusive MEGATRAK suspension. Independent hydro-pneumatic system acting on all wheels with hydraulic lockout. Suspension can be raised 6.7" (170 mm) or lowered 5.1" (130 mm), both longitudinally and transversely. Features an automatic leveling system for highway travel.

Tires

8 tires, 16.00R25 (Vehicle width – 9.0' [2.75 m])

Steering

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

Brakes

Service brakes: pneumatic dual circuit acting on all wheels.

Parking brake: pneumatically operated spring loaded brake acting on axle lines 2 and 4.

Standard anti-lock prevention (ABS).

Air dryer.

Cab

Two-man, aluminum construction with the following features: safety glass, driver and passenger seats with hydraulic suspension, engine-independent diesel heater/preheater with 24 hr. timer, power windows, heated rear view mirrors, complete instrumentation and driving controls.

ECOS control of suspension, drive connect and disconnect, inter-axle locks, differential locks and all-wheel steer.

Electrical System

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

2 batteries, 12V/170 Ah

Maximum Speed

53 mph (85 kph)

Gradeability (Theoretical)

63.7% - 14.00 tires

56.7% - 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, wind speed indicator.

Optional Equipment

- *Stainless steel exhaust system with spark arrestor
- *14.00R25 tires (vehicle width 9.0 ft.[2.75 m])
- *20.5R25 tires (vehicle width 9.8 ft.[2.88 m])
- *Spare tire and wheel with carry bracket
- *8x8x8 drive/steer (additional drive, axle #2)
- *Electric driveline retarder
- *Steel outrigger pads
- *Outrigger pad load indicator
- *Trailer and towing hitches
- *Engine independent diesel cab heater, with engine pre-heater
- *Timer for diesel heater
- *Air conditioning
- *Additional strobe lights
- *Work lights for outriggers
- *Working range limiter
- *Wireless remote control for all crane functions
- *Data logger
- *Rear mounted stowage box

**Denotes optional equipment*

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GROVE

load charts

2

- 
171 ft.
(52 m)
- 
32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Hydraulic Luffing
Loads Luffing
- 
42,900 lbs.
(19 459 kg)
- 
100%
23' spread
- 
360°



Pounds x1000

Radius	170.6' + 32.8'		170.6' + 55.8'		170.6' + 72.2'		170.6' + 88.6'	
	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°
35								
40	10.8							
45	10.8							
50	10.8	9.4						
55	10.8	9.4	7.2					
60	10.8	9.4	7.2		5.8			
65	10.8	9.4	7.2		5.8			
70	10.8	9.4	7.2	6.0	5.8		4.0	
75	10.8	9.4	7.2	6.0	5.8	5.2	4.0	
80	10.4	9.4	7.2	6.0	5.8	5.2	4.0	4.0
85	10.0	9.4	7.0	6.0	5.8	5.2	4.0	4.0
90	9.6	9.4	6.8	5.8	5.8	5.2	4.0	4.0
95	9.2	9.2	6.6	5.8	5.8	5.2	4.0	4.0
100	8.2	8.8	6.4	5.6	5.8	5.2	4.0	4.0
105	7.4	8.0	6.2	5.6	5.8	5.2	4.0	4.0
110	6.6	7.2	6.0	5.4	5.6	5.2	4.0	4.0
115	5.8	6.4	6.0	5.4	5.4	5.2	4.0	4.0
120	5.2	5.6	5.6	5.4	5.2	5.2	4.0	4.0
125	4.6	5.0	5.0	5.2	4.6	5.0	4.0	4.0
130	4.0	4.4	4.4	5.2	4.0	4.8	3.8	4.0
135	3.4	3.8	3.8	4.6	3.6	4.4	3.4	3.8
140	2.8	3.2	3.4	4.0	3.0	3.8	3.0	3.8
145	2.4	2.8	3.0	3.6	2.6	3.4	2.6	3.2
150	2.0	2.2	2.4	3.2	2.2	3.0	2.2	2.8
155	1.6	1.8	2.0	2.6	1.8	2.6	1.8	2.4
160			1.6	2.2		2.2		2.0
165				1.8		1.6		1.6
170								

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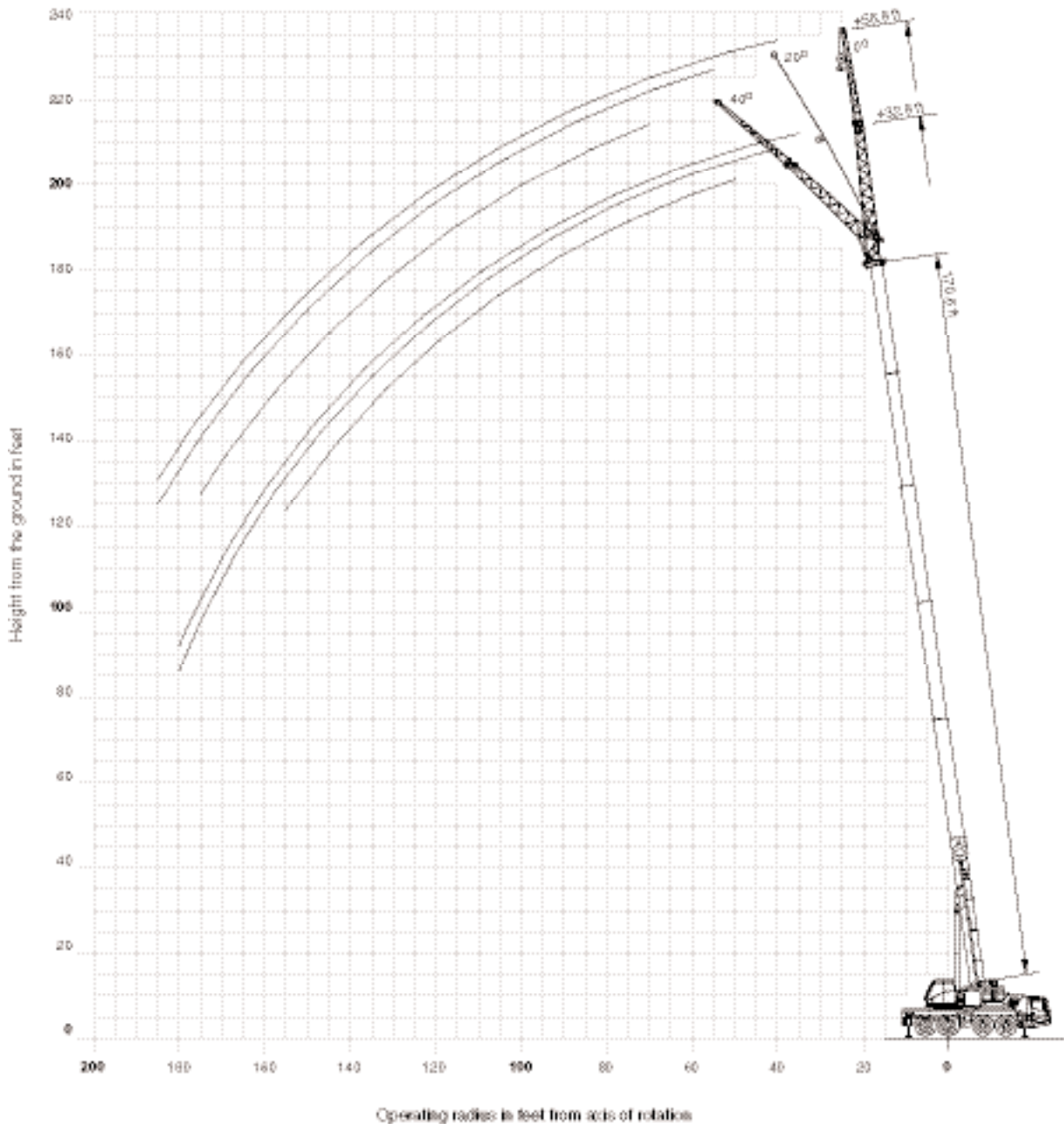
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

GROVE

working range

171' Main Boom with Manual Offset 32.8 ft. and 55.8 ft. Swingaway

3



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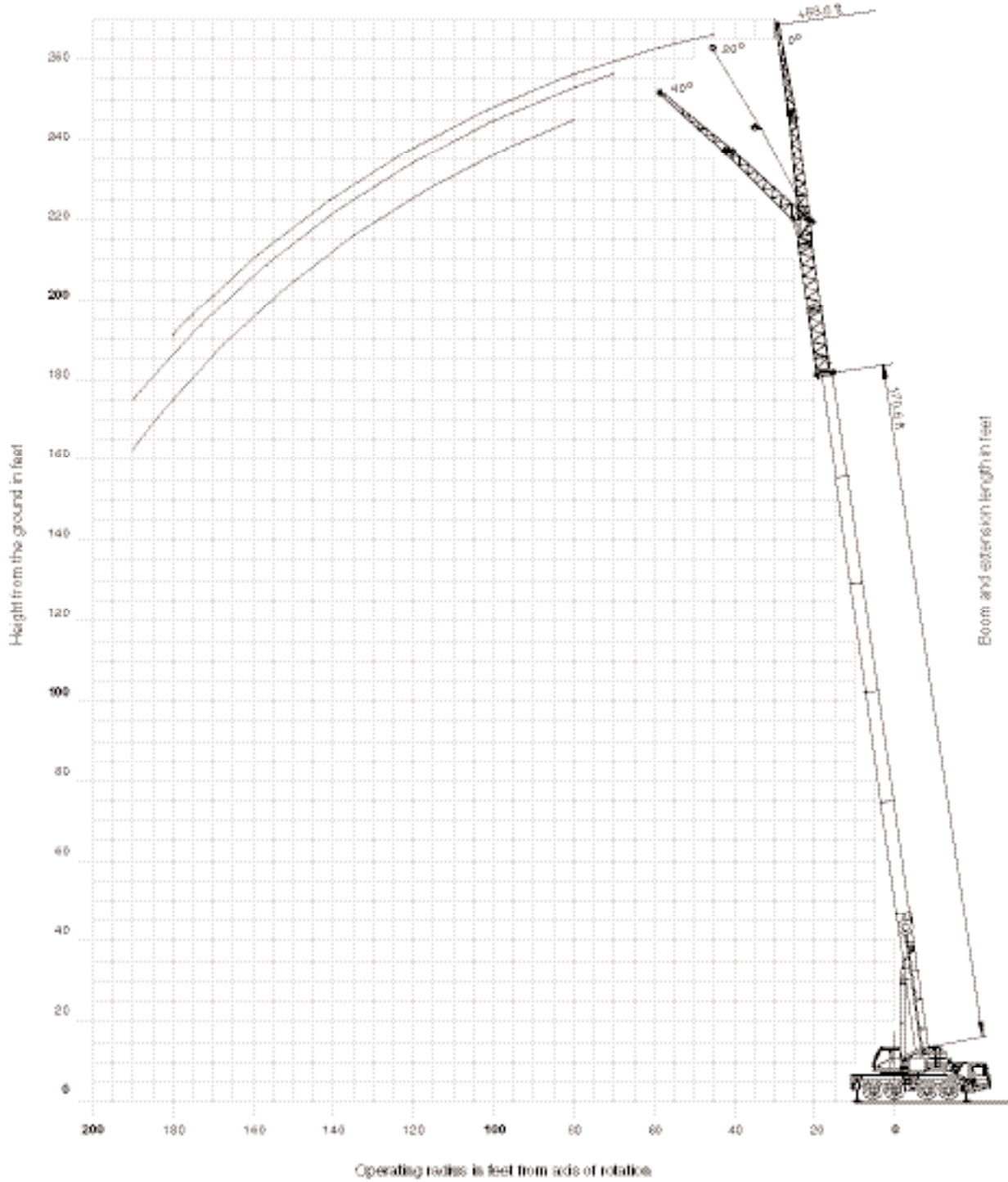
GROVE.

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working range

171' Main Boom with Manual Offset 55.8 ft. Swingaway and 2 x 16 ft. Inserts

4



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GROVE

load charts

5


171 ft.
(52 m)


32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Manual Offset


57,500 lbs.
(26 082 kg)


100%
23' spread


360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.4	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	10.0	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	9.4	9.4	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	9.0	9.0	9.0	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	8.4	8.6	8.6	7.4	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	8.0	8.2	8.4	7.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	7.4	7.6	8.0	6.8	6.4	5.8	5.8	5.6	5.4	4.0	4.0	4.0
125	7.0	7.2	7.6	6.6	6.4	5.8	5.6	5.4	5.2	4.0	4.0	4.0
130	6.4	6.8	7.0	6.4	6.2	5.6	5.4	5.2	5.0	4.0	4.0	4.0
135	5.8	6.2	6.4	6.0	6.0	5.6	5.2	5.0	5.0	4.0	4.0	4.0
140	5.0	5.4	5.6	5.6	5.8	5.6	5.0	4.8	4.8	4.0	4.0	4.0
145	4.6	4.8	5.0	5.0	5.6	5.6	4.8	4.6	4.6	3.8	3.8	3.8
150	4.0	4.4	4.4	4.4	5.2	5.4	4.2	4.6	4.6	3.6	3.6	3.6
155	3.4	3.8	3.8	4.0	4.6	5.0	3.8	4.4	4.4	3.6	3.6	3.6
160	3.0	3.2		3.6	4.2	4.4	3.4	4.0	4.2	3.2	3.4	3.4
165	2.6	2.8		3.0	3.6	4.0	2.8	3.6	4.0	2.8	3.2	3.4
170	2.2	2.4		2.6	3.2	3.4	2.4	3.0	3.4	2.4	3.0	3.2
175	1.8	2.0		2.2	2.8	3.0	2.0	2.6	3.0	2.0	2.6	3.0
180	1.4	1.6		2.0	2.4		1.8	2.2	2.4	1.6	2.2	2.6
185				1.6	2.0			1.8	2.0		1.8	2.2
190					1.6			1.4	1.6		1.6	1.8

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load charts

6


171 ft.
(52 m)


32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Manual Offset


52,600 lbs.
(23 859 kg)


100%
23' spread


360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.4	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	10.0	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	9.4	9.4	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	9.0	9.0	9.0	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	8.4	8.6	8.6	7.4	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	7.6	8.2	8.4	7.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	7.0	7.4	7.8	6.8	6.4	5.8	5.8	5.6	5.4	4.0	4.0	4.0
125	6.2	6.8	7.0	6.6	6.4	5.8	5.6	5.4	5.2	4.0	4.0	4.0
130	5.6	6.0	6.4	6.0	6.2	5.6	5.4	5.2	5.0	4.0	4.0	4.0
135	5.0	5.4	5.6	5.4	6.0	5.6	5.0	5.0	5.0	4.0	4.0	4.0
140	4.4	4.8	5.0	4.8	5.6	5.6	4.6	4.8	4.8	4.0	4.0	4.0
145	3.8	4.2	4.4	4.2	5.0	5.6	4.0	4.6	4.6	3.8	3.8	3.8
150	3.2	3.6	3.8	3.8	4.4	5.0	3.6	4.2	4.6	3.4	3.6	3.6
155	2.8	3.2	3.2	3.4	4.0	4.4	3.2	3.8	4.2	3.0	3.6	3.6
160	2.4	2.6		2.8	3.4	3.8	2.6	3.4	3.8	2.6	3.2	3.4
165	2.0	2.2		2.4	3.0	3.2	2.2	3.0	3.2	2.2	2.8	3.2
170	1.6	1.8		2.0	2.6	2.8	1.8	2.4	2.8	1.8	2.4	2.8
175				1.6	2.2	2.4	1.6	2.0	2.4	1.4	2.0	2.4
180					1.8			1.6	2.0		1.6	2.0
185									1.4			1.6

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GROVE

load charts

7


171 ft.
(52 m)


32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Manual Offset


42,900 lbs.
(19 459 kg)


100%
23' spread


360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.2	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	9.2	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	8.2	8.8	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	7.4	8.0	8.4	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	6.6	7.2	7.6	6.8	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	5.8	6.4	6.8	6.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	5.2	5.8	6.0	5.6	6.4	5.8	5.2	5.6	5.4	4.0	4.0	4.0
125	4.6	5.0	5.4	5.0	5.8	5.8	4.6	5.4	5.2	4.0	4.0	4.0
130	4.0	4.4	4.8	4.4	5.2	5.6	4.0	5.0	5.0	3.8	4.0	4.0
135	3.4	3.8	4.0	3.8	4.6	5.2	3.6	4.4	5.0	3.4	4.0	4.0
140	2.8	3.2	3.4	3.4	4.2	4.6	3.0	3.8	4.4	3.0	3.8	4.0
145	2.4	2.8	3.0	3.0	3.6	4.2	2.6	3.4	4.0	2.6	3.2	3.8
150	2.0	2.2	2.4	2.4	3.2	3.6	2.2	3.0	3.4	2.2	2.8	3.4
155	1.6	1.8	2.0	2.0	2.6	3.0	1.8	2.6	3.0	1.8	2.4	2.8
160				1.6	2.2	2.6		2.2	2.6		2.0	2.4
165					1.8	2.0		1.6	2.0		1.6	2.0
170						1.6			1.6			1.6

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GROVE.

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notes

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GROVE.

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notes

notes

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notes

notes

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GROVE.

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Wilhelmshaven

Portugal

Fânzeres

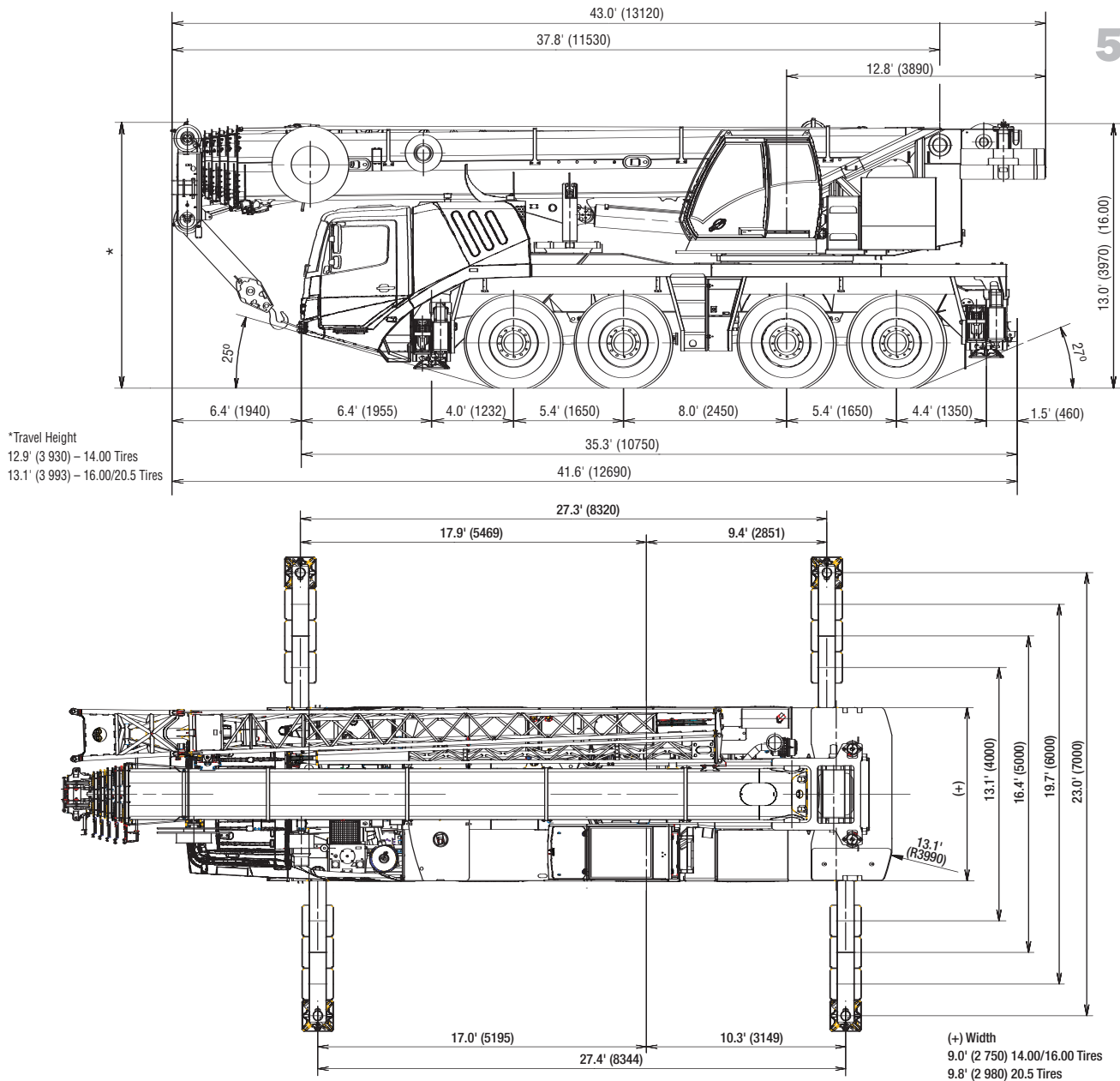
China

Zhangjiagang



dimensions

Weights & Dimensions



Basic Weights - lb. (kg.)	Axles 1 & 2		Axles 2 & 3		Total	
Mercedes power, 14.00R25 tires, 8x6x8 drive/steer, 2nd oil cooler, outrigger floats installed, 7,716 lb. (3.5 t) bolted counterweight	47,503	(21547)	47,008	(21323)	94,511	(42870)
Additions:						
16.00R25 tires plus decking	584	(265)	584	(265)	1168	(530)
20.5R25 tires plus decking	955	(433)	955	(433)	1,910	(866)
14.00R25 spare tire with bracket	-395	(-179)	968	(439)	573	(260)
16.00R25 spare tire with bracket	-489	(-222)	1,195	(542)	705	(320)
20.5R25 spare tire with bracket	-560	(-254)	1,358	(616)	798	(362)
8X8X8 drive/steer	575	(261)	152	(69)	728	(330)
Electric driveline retarder	-60	(-27)	633	(287)	573	(260)
Brackets for swingaway	218	(99)	-20	(-9)	198	(90)
Hose reel for luffing swingaway	747	(339)	-362	(-164)	386	(175)
33-56 ft. (10-17 m) swingaway	3,545	(1608)	-668	(-303)	2,877	(1305)
Auxiliary boom nose	304	(138)	-172	(-78)	132	(60)
Auxiliary hoist	-340	(-154)	990	(449)	650	(295)
Removals:						
Outrigger floats (front and rear)	-128	(-58)	-137	(-62)	-265	(-120)

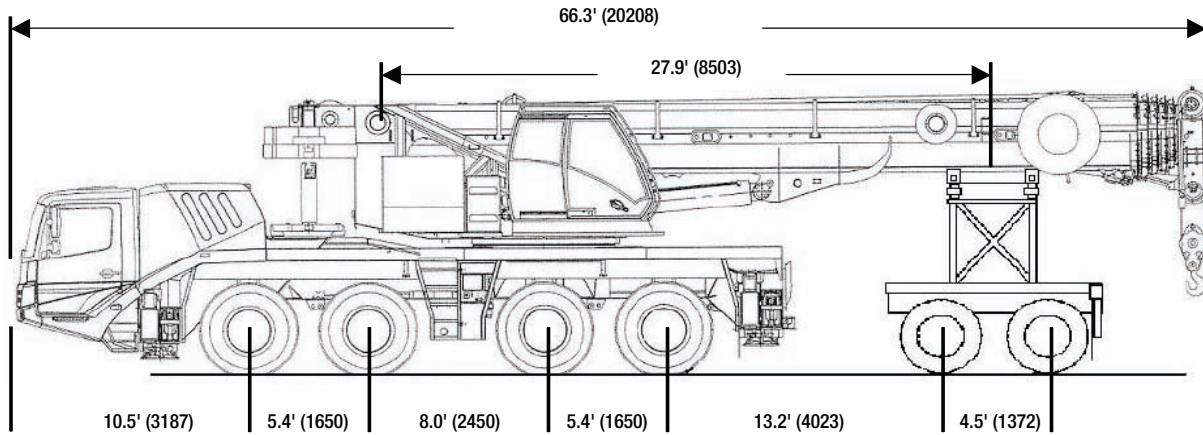
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GROVE

trailing boom proposal

Trailing Boom Weights

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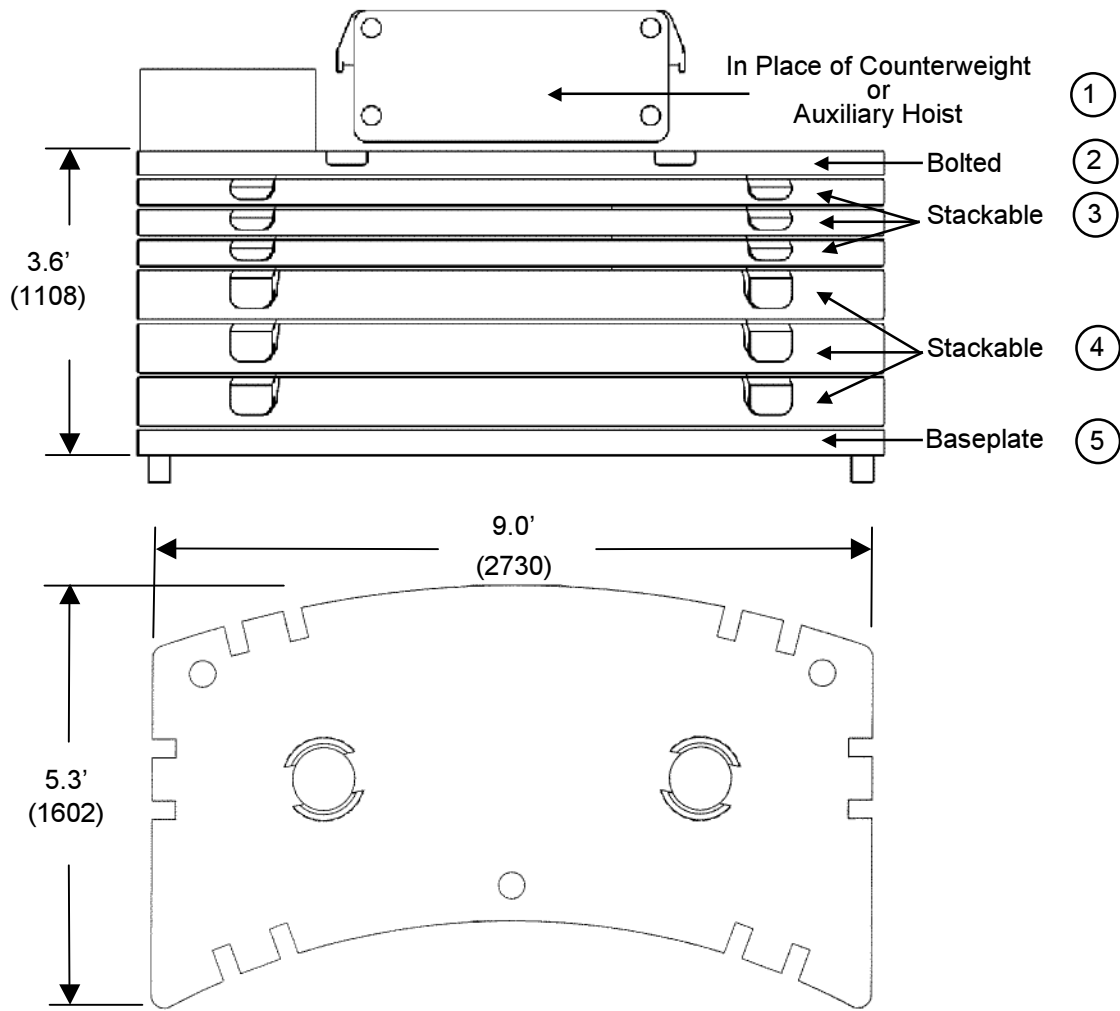


Basic Weights - lb. (kg.)	Axles 1 & 2		Axles 3 & 4		Dolly		Total	
Mercedes power, 16.00 tires, 8x8 drive/steer, outrigger pads stowed, auxiliary hoist, 56 ft. hydraulic luffing swingaway stowed, additional oil cooler, 7,716 lb. (3500 kg.) counterweight slab bolted to superstructure and 6,000 lb. boom dolly. 13 tons of extend boom boost with boom telescoped 12.2 ft.	38,736	(17571)	38,601	(17510)	29,059	(13181)	106,397	(48262)
Additions:								
14.00R25 tires	-584	(-265)	-584	(-265)	-	-	-1,168	(-530)
20.5R25 tires	370	(168)	370	(168)	-	-	740	(336)
8x8 drive/steer	575	(261)	152	(69)	-	-	728	(330)
Remove:								
Hydraulic hose reel	31	(14)	9	(4)	-428	(-194)	-387	(-175)
Brackets for swingaway	-44	(-20)	-13	(-6)	-139	(-63)	-197	(-90)
33 - 56 ft. (10 - 17 m) swingaway	-509	(-231)	-159	(-72)	-2209	(-1002)	-2877	(-1305)
Front and rear outrigger floats	-130	(-59)	-135	(-61)	-	-	-265	(-120)

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GROVE

counterweight



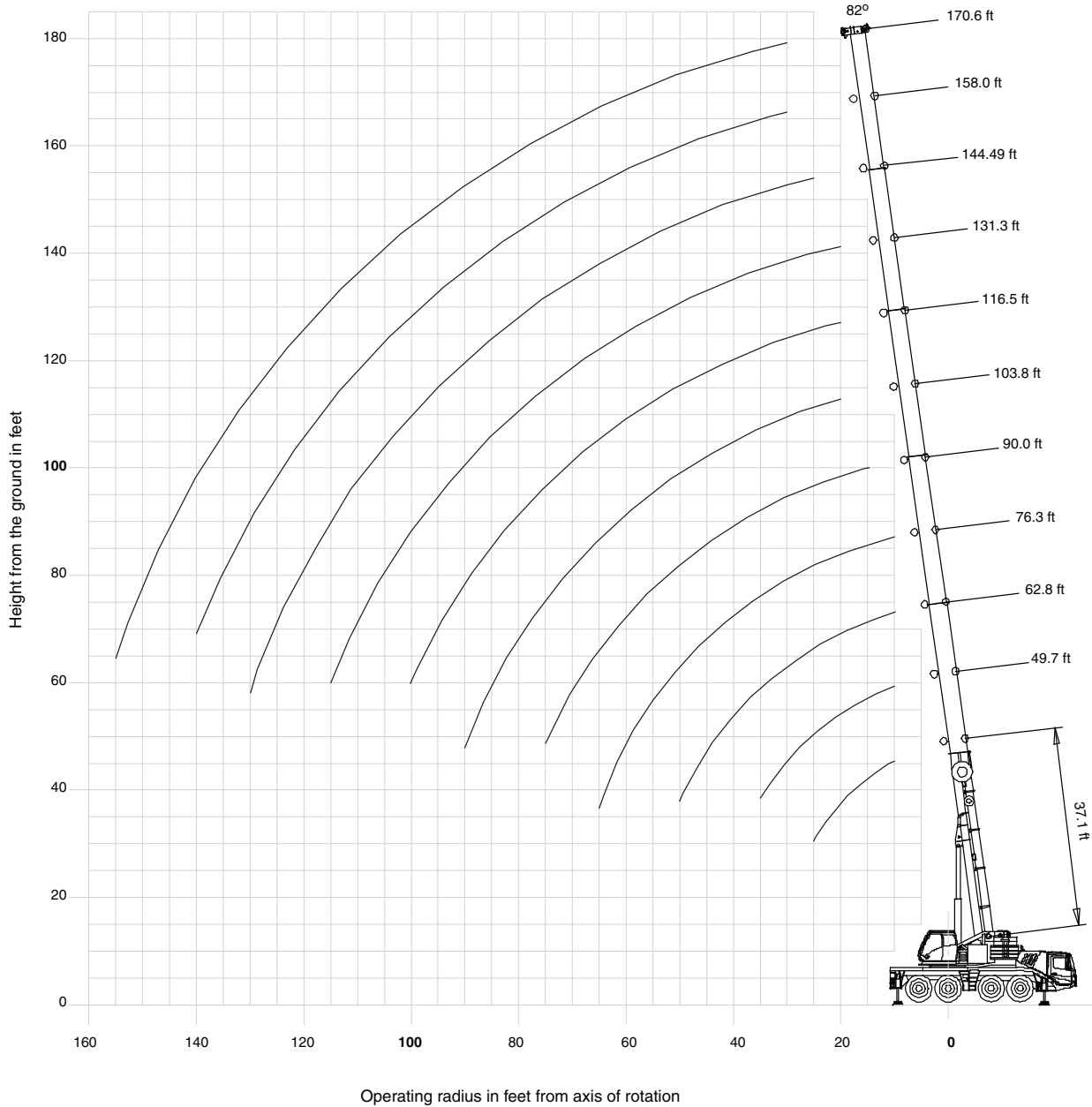
	1 1,300 (600)	2 7,700 (3500)	3 4,850 (2200)	4 9,700 (4400)	5 4,850 (2200)
Counterweight Configuration lb.(kg.)					
9000 (4100)	X	X			
13,800 (6300)	X	X			X
18,700 (8500)	X	X	X		X
23,500 (10700)	X	X		X	X
28,400 (12900)	X	X	X	X	X
33,200 (15100)	X	X		2X	X
38,100 (17300)	X	X	X	2X	X
42,900 (19500)	X	X	2X	2X	X
47,800 (21700)	X	X	X	3X	X
52,600 (23900)	X	X	2X	3X	X
57,500 (26100)	X	X	3X	3X	X

GMK4115

working range

37'-171' Main Boom

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GROVE

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load charts

 **37-171 ft.**
(11.3-52 m)
 **57,500 lbs.**
(26 082 kg)
 **100%**
23' spread
 **360°**







Pounds x 1000

9

Feet	37.1'	49.7'	62.8'	76.3'	90.0'	103.8'	116.5'	131.3'	144.9'	158.0'	170.6'
8	* 230.0										
10	161.0	146.0	138.0	123.0							
15	126.0	123.0	115.0	108.0	93.0						
20	101.0	102.0	95.0	89.0	84.0	71.0	56.0	41.8			
25	85.0	85.0	80.0	75.0	72.0	65.0	52.0	41.8	32.2		
30		73.0	70.0	65.0	62.0	58.0	47.0	41.0	32.2	25.4	21.0
35		63.0	62.0	56.0	54.0	53.0	42.0	37.8	32.2	25.4	21.0
40			52.0	49.0	48.0	47.0	37.6	34.2	31.4	25.4	21.0
45			43.2	42.6	41.6	41.6	34.0	31.0	28.8	25.4	21.0
50			37.8	37.8	36.0	36.2	30.8	28.4	26.4	24.2	21.0
55				32.6	32.4	31.8	28.0	25.6	24.2	22.6	20.8
60				28.4	29.6	28.2	25.6	23.2	21.8	21.0	19.6
65				24.8	26.2	25.2	24.0	21.4	20.2	19.4	18.4
70					23.4	22.4	22.8	19.8	18.8	18.0	17.4
75					20.8	19.8	21.0	18.4	17.4	16.8	16.4
80						18.6	18.8	16.6	16.0	15.4	15.2
85						17.8	16.8	15.4	14.6	14.2	14.0
90						16.2	15.2	14.6	13.2	12.8	12.6
95							13.8	13.6	12.2	11.8	11.8
100							12.4	12.6	11.2	11.0	11.0
105								11.8	10.6	10.2	10.2
110								10.8	10.2	9.6	9.8
115								9.8	9.8	9.2	9.0
120									9.0	8.6	8.0
125									8.2	8.0	7.2
130									7.6	7.2	6.6
135										6.6	5.8
140										6.0	5.2
145											4.6
150											4.2
155											3.6

* Over the rear with special equipment

 **37-171 ft.**
(11.3-52 m)
 **52,600 lbs.**
(23 859 kg)
 **100%**
23' spread
 **360°**







Pounds x 1000

Feet	37.1'	49.7'	62.8'	76.3'	90.0'	103.8'	116.5'	131.3'	144.9'	158.0'	170.6'
10	161.0	146.0	138.0	123.0							
15	126.0	123.0	115.0	108.0	93.0						
20	101.0	102.0	95.0	89.0	84.0	71.0	56.0	41.8			
25	84.0	85.0	80.0	75.0	72.0	65.0	52.0	41.8	32.2		
30		72.0	70.0	65.0	62.0	58.0	47.0	41.0	32.2	25.4	21.0
35		61.0	59.0	56.0	54.0	53.0	42.0	37.8	32.2	25.4	21.0
40			49.0	47.0	46.0	46.0	37.6	34.2	31.4	25.4	21.0
45			41.0	41.6	39.2	39.4	34.0	31.0	28.8	25.4	21.0
50			36.0	35.8	35.4	34.2	30.8	28.4	26.4	24.2	21.0
55				30.6	32.0	30.0	28.0	25.6	24.2	22.6	20.8
60				26.6	28.0	26.6	25.6	23.2	21.8	21.0	19.6
65				24.8	24.6	23.6	24.0	21.4	20.2	19.4	18.4
70					21.8	20.8	21.8	19.0	18.8	18.0	17.4
75					19.2	19.6	19.4	17.2	17.0	16.8	16.4
80						18.4	17.4	16.2	15.4	15.4	15.2
85						16.6	15.6	15.4	13.8	14.2	14.0
90						15.0	14.0	14.6	12.6	12.8	12.6
95							12.6	13.2	11.8	11.6	11.8
100							11.4	12.0	11.2	10.8	10.8
105								10.8	10.6	10.2	10.0
110								9.8	9.8	9.6	9.0
115								8.8	9.0	8.8	8.0
120									8.2	8.0	7.2
125									7.4	7.2	6.4
130									6.8	6.4	5.8
135										5.8	5.0
140										5.2	4.6
145											4.0
150											3.4
155											3.0

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load charts





10

 37-171 ft.
(11.3-52 m)
 42,900 lbs.
(19 459 kg)
 100%
23' spread
 360°



Pounds x 1000

Feet	37.1'	49.7'	62.8'	76.3'	90.0'	103.8'	116.5'	131.3'	144.9'	158.0'	170.6'
10	161.0	146.0	138.0	123.0							
15	125.0	123.0	115.0	108.0	93.0						
20	101.0	101.0	95.0	89.0	84.0	71.0	56.0	41.8			
25	84.0	85.0	80.0	75.0	72.0	65.0	52.0	41.8	32.2		
30		69.0	65.0	61.0	60.0	58.0	47.0	41.0	32.2	25.4	21.0
35		55.0	53.0	52.0	49.0	49.0	42.0	37.8	32.2	25.4	21.0
40			45.0	43.4	42.8	40.8	37.6	34.2	31.4	25.4	21.0
45			37.4	37.0	37.2	35.0	32.8	31.0	28.8	25.4	21.0
50			31.4	32.0	32.2	30.2	29.8	27.4	26.4	24.2	21.0
55				28.6	28.0	26.4	26.8	23.8	23.6	22.6	20.8
60				24.8	24.2	23.4	23.8	20.8	20.8	21.0	19.6
65				21.6	21.2	21.8	21.2	19.4	18.2	18.6	18.4
70					18.6	19.8	18.8	18.2	17.0	16.8	16.8
75					17.4	17.6	16.6	17.0	16.0	15.6	15.0
80						15.6	14.8	15.4	14.8	14.6	13.4
85						14.0	13.2	13.6	13.8	13.2	12.0
90						12.6	12.6	12.2	12.4	12.0	10.8
95							11.8	11.0	11.0	10.8	9.8
100							10.6	10.2	10.0	9.8	8.8
105								9.6	9.2	8.8	8.0
110								8.8	8.2	7.8	7.0
115								8.0	7.4	7.0	6.2
120									6.6	6.2	5.4
125									6.0	5.6	4.8
130									5.4	5.0	4.2
135										4.4	3.6
140										3.8	3.0
145											2.6
150											2.2
155											1.6

 37-171 ft.
(11.3-52 m)
 28,400 lbs.
(12 882 kg)
 100%
23' spread
 360°







Pounds x 1000

Feet	37.1'	49.7'	62.8'	76.3'	90.0'	103.8'	116.5'	131.3'	144.9'	158.0'	170.6'
10	160.0	146.0	138.0	123.0							
15	124.0	123.0	115.0	108.0	93.0						
20	100.0	101.0	93.0	88.0	84.0	71.0	56.0	41.8			
25	77.0	75.0	70.0	68.0	63.0	62.0	52.0	41.8	32.2		
30		58.0	56.0	53.0	49.0	49.0	46.0	41.0	32.2	25.4	21.0
35		44.0	45.0	43.4	42.8	39.8	28.8	35.6	32.2	25.4	21.0
40			36.0	37.6	35.6	33.0	33.2	29.6	29.0	25.4	21.0
45			31.0	31.4	30.0	29.8	28.2	25.6	24.4	24.4	21.0
50			25.8	26.2	25.6	26.2	24.2	23.8	22.6	22.2	21.0
55				22.2	22.6	22.8	21.0	21.0	20.4	19.8	18.4
60				19.2	20.4	20.0	19.0	18.4	18.2	17.2	16.0
65				16.8	17.8	17.2	17.6	16.6	16.2	15.2	14.0
70					15.6	15.0	15.6	15.4	14.4	13.4	12.4
75					13.8	13.6	13.8	13.8	12.8	12.0	10.8
80						12.6	12.2	12.2	11.4	10.6	9.6
85						11.2	10.8	10.8	10.2	9.4	8.4
90						9.0	9.8	9.6	9.0	8.4	7.4
95							8.8	8.6	8.0	7.6	6.6
100							7.8	7.6	7.0	6.6	5.6
105								6.8	6.2	5.8	5.0
110								6.0	5.4	5.0	4.2
115								5.2	4.6	4.2	3.4
120									4.0	3.6	2.8
125									3.4	3.0	2.4
130									3.0	2.6	1.8
135										2.0	
140										1.6	
145											



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load charts





11



37-171 ft. (11.3-52 m) 18,700 lbs. (8 482 kg) 100% 23' spread 360°


 Pounds x 1000

Feet	37.1'	49.7'	62.8'	76.3'	90.0'	103.8'	116.5'	131.3'	144.9'	158.0'	170.6'
10	159.0	146.0	138.0	123.0							
15	123.0	123.0	115.0	108.0	93.0						
20	99.0	91.0	84.0	80.0	74.0	71.0	56.0	41.8			
25	65.0	67.0	63.0	59.0	58.0	54.0	50.0	41.8	32.2		
30		49.0	48.0	48.0	45.0	41.8	41.0	36.8	32.2	25.4	21.0
35		36.8	39.2	38.6	36.2	35.4	33.4	30.4	28.8	25.4	21.0
40			31.4	31.6	29.6	30.0	27.6	27.4	26.2	23.6	21.0
45			25.6	26.0	26.4	25.2	24.0	23.2	22.8	21.6	20.0
50			21.2	21.6	23.0	21.6	21.4	20.8	19.6	18.4	17.0
55				19.4	19.6	18.6	18.6	18.2	17.0	16.0	14.6
60				16.6	16.8	17.2	16.4	15.8	14.8	13.8	12.6
65				14.2	14.4	15.0	14.6	14.0	12.8	12.0	10.8
70					12.6	13.0	12.8	12.2	11.2	10.6	9.4
75					10.8	11.4	11.2	10.8	10.0	9.2	8.2
80						10.0	9.8	9.6	8.8	8.0	7.0
85							8.8	8.6	8.4	7.6	6.0
90							6.8	7.4	7.2	6.6	5.2
95								6.6	6.4	5.8	4.4
100								5.8	5.6	5.0	3.6
105									4.8	4.2	3.0
110									4.2	3.4	2.4
115									3.6	2.8	1.8
120										2.4	2.0
125											1.8
130											

37-171 ft. (11.3-52 m) 9,000 lbs. (4 082 kg) 100% 23' spread 360°


 Pounds x 1000

Feet	37.1'	49.7'	62.8'	76.3'	90.0'	103.8'	116.5'	131.3'	144.9'	158.0'	170.6'
10	158.0	146.0	138.0	123.0							
15	123.0	123.0	111.0	100.0	93.0						
20	83.0	79.0	74.0	68.0	66.0	60.0	44.0	41.8			
25	53.0	56.0	53.0	52.0	48.0	44.0	43.4	38.2	32.2		
30		40.2	41.4	39.4	36.8	36.6	33.6	32.8	28.6	25.4	21.0
35		30.2	32.2	31.2	29.2	29.4	28.8	27.8	26.0	23.4	21.0
40			25.2	25.4	25.8	24.0	23.8	23.0	21.4	20.2	18.6
45			20.4	22.0	21.6	21.2	20.4	19.4	18.0	16.8	15.4
50			16.6	18.2	18.2	18.2	17.2	16.4	15.2	14.2	13.0
55				15.2	15.4	15.6	14.8	14.0	13.0	12.0	10.8
60				12.8	13.0	13.4	12.8	12.2	11.2	10.4	9.2
65				10.8	11.0	11.4	11.2	10.6	9.6	8.8	7.6
70					9.4	9.8	9.6	9.2	8.2	7.4	6.4
75					8.0	8.4	8.2	8.0	7.0	6.4	5.4
80						7.2	7.0	6.8	6.0	5.4	4.4
85							6.2	6.0	5.8	5.2	4.4
90							4.2	5.0	4.8	4.2	3.8
95								4.2	4.0	3.4	3.0
100								3.6	3.4	2.8	2.4
105									2.8	2.2	1.8
110									2.2	1.6	
115											1.6
120											

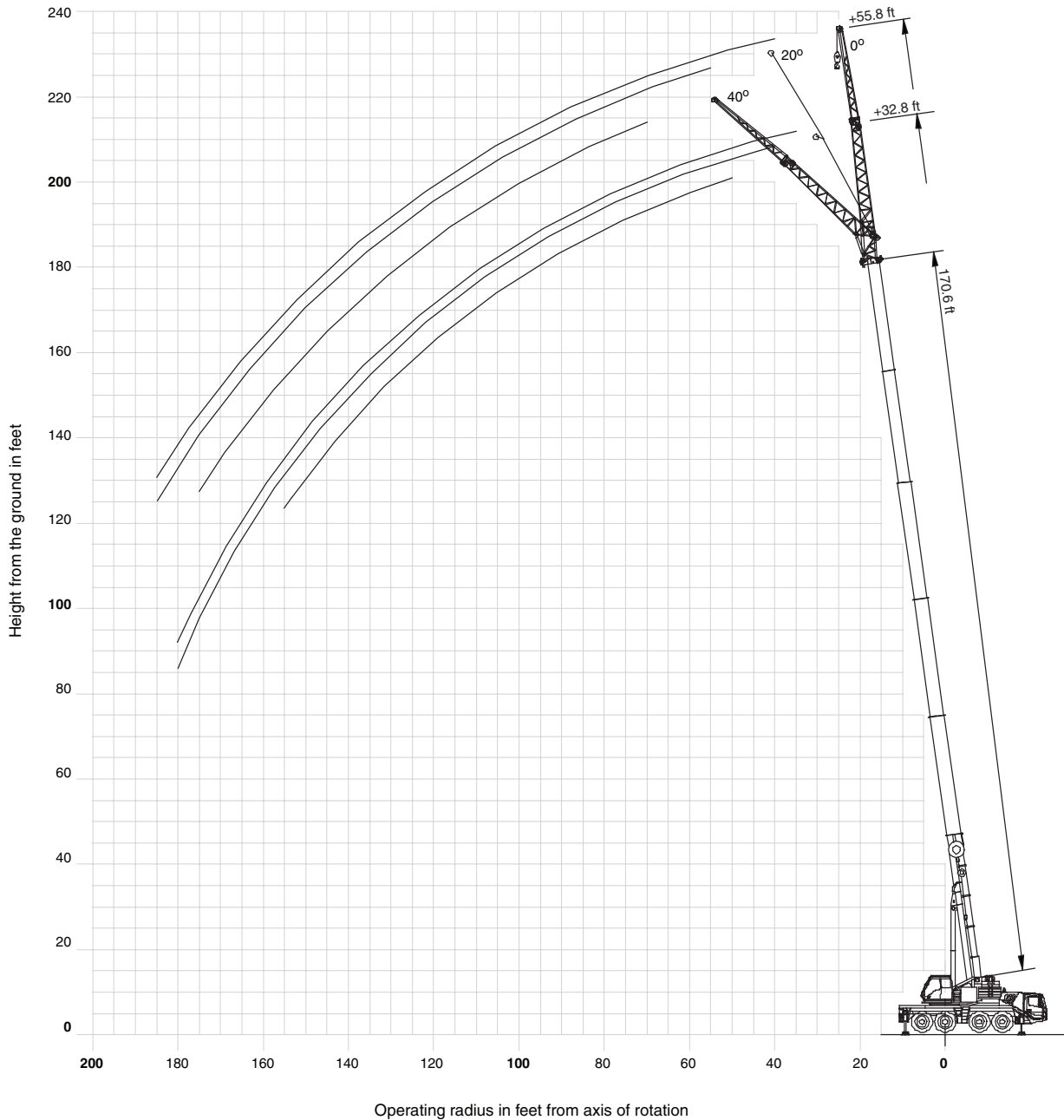
GMK4115

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

171' Main Boom with Hydraulic Luffing 32.8 ft. and 55.8 ft. Swingaway

12



GMK4115

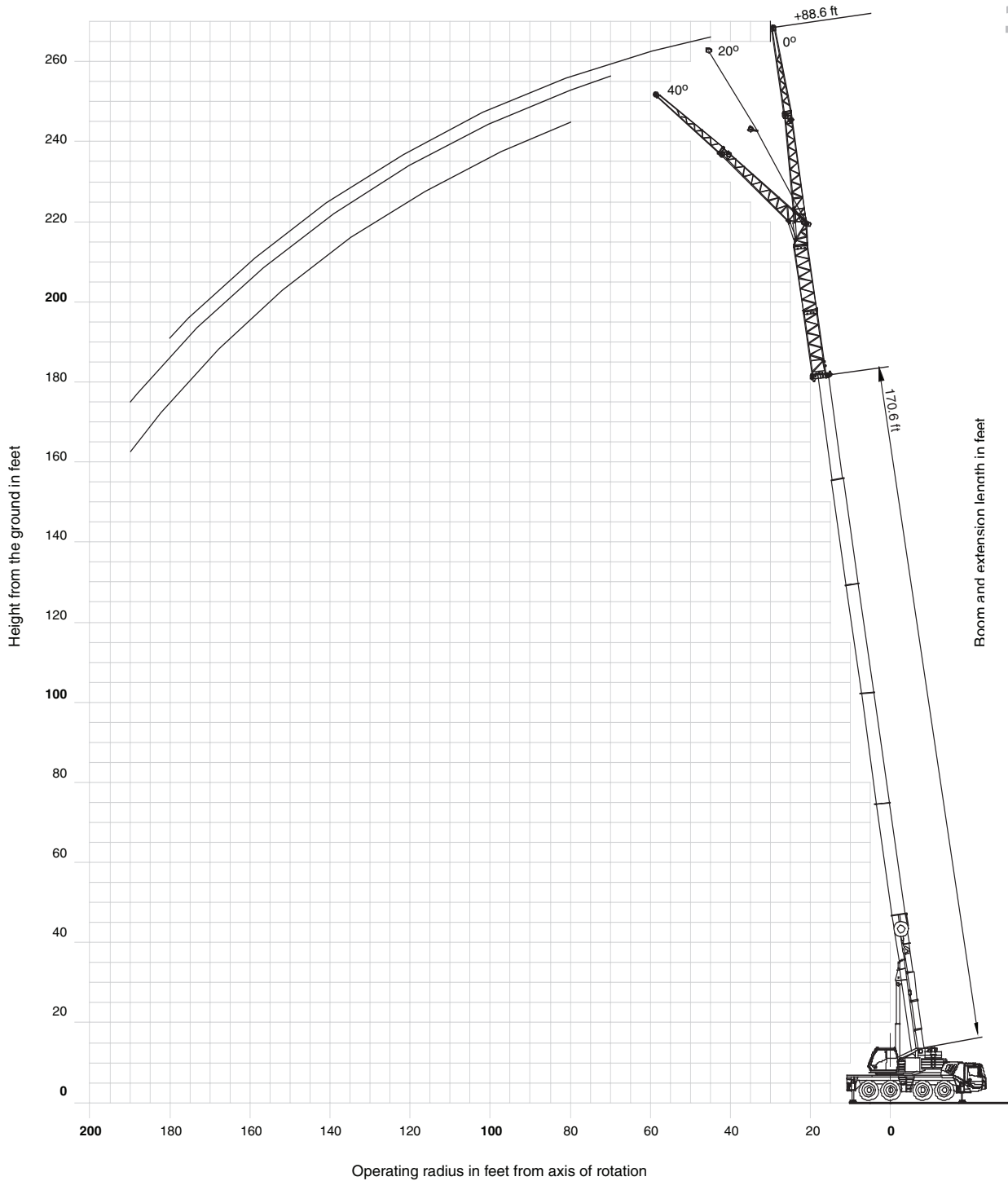
GROVE

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

171' Main Boom with Hydraulic Luffing, 55.8 ft. Swingaway and 2 x 16 ft. Inserts

13



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load charts

14



171 ft.
(52 m)



32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Hydraulic Luffing
Stationary



57,500 lbs.
(26 082 kg)



100%
23' spread



360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.4	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	
95	10.0	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	9.4	9.4	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	9.0	9.0	9.0	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	8.4	8.6	8.6	7.4	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	8.0	8.2	8.4	7.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	7.4	7.6	8.0	6.8	6.4	5.8	5.8	5.6	5.4	4.0	4.0	4.0
125	7.0	7.0	7.6	6.6	6.4	5.8	5.6	5.4	5.2	4.0	4.0	4.0
130	6.4	6.4	6.8	6.4	6.2	5.6	5.4	5.2	5.0	4.0	4.0	4.0
135	5.8	5.8	6.2	6.0	6.0	5.6	5.2	5.0	5.0	4.0	4.0	4.0
140	5.0	5.0	5.4	5.6	5.6	5.6	5.0	4.8	4.8	4.0	4.0	4.0
145	4.6	4.6	4.8	5.0	5.0	5.6	4.8	4.6	4.6	3.8	3.8	3.8
150	4.0	4.0	4.4	4.4	4.4	5.2	4.2	4.2	4.6	3.6	3.6	3.6
155	3.4	3.4	3.8	4.0	4.0	4.6	3.8	3.8	4.4	3.6	3.6	3.6
160	3.0	3.0		3.6	3.6	4.2	3.4	3.4	4.0	3.2	3.2	3.4
165	2.6	2.6		3.0	3.0	3.6	2.8	2.8	3.6	2.8	2.8	3.4
170	2.2	2.2		2.6	2.6	3.2	2.4	2.4	3.0	2.4	2.4	3.0
175	1.8	1.8		2.2	2.2	2.8	2.0	2.0	2.6	2.0	2.0	2.6
180	1.4	1.4		2.0	2.0		1.8	1.8	2.2	1.6	1.6	2.2
185				1.6	1.6				1.8			1.8
190									1.4			1.6


GMK4115

GROVE

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load charts


171 ft.
(52 m)


32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Hydraulic Luffing
Loads Luffing


57,500 lbs.
(26 082 kg)


100%
23' spread


360°



Pounds x1000

15

Radius	170.6' + 32.8'		170.6' + 55.8'		170.6' + 72.2'		170.6' + 88.6'	
	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°
35								
40	10.8							
45	10.8							
50	10.8	9.4						
55	10.8	9.4	7.2					
60	10.8	9.4	7.2		5.8			
65	10.8	9.4	7.2		5.8			
70	10.8	9.4	7.2	6.0	5.8		4.0	
75	10.8	9.4	7.2	6.0	5.8	5.2	4.0	
80	10.4	9.4	7.2	6.0	5.8	5.2	4.0	4.0
85	10.0	9.4	7.0	6.0	5.8	5.2	4.0	4.0
90	9.6	9.4	6.8	5.8	5.8	5.2	4.0	4.0
95	9.2	9.2	6.6	5.8	5.8	5.2	4.0	4.0
100	8.8	8.8	6.4	5.6	5.8	5.2	4.0	4.0
105	8.6	8.6	6.2	5.6	5.8	5.2	4.0	4.0
110	8.2	8.2	6.0	5.4	5.6	5.2	4.0	4.0
115	7.8	8.0	6.0	5.4	5.4	5.2	4.0	4.0
120	7.4	7.6	5.8	5.4	5.2	5.2	4.0	4.0
125	6.6	7.2	5.6	5.2	5.0	5.0	4.0	4.0
130	6.0	6.4	5.6	5.2	5.0	4.8	4.0	4.0
135	5.4	5.8	5.4	5.2	4.8	4.8	3.8	3.8
140	4.8	5.2	5.2	5.2	4.6	4.6	3.8	3.8
145	4.4	4.6	4.8	5.0	4.4	4.4	3.6	3.6
150	3.8	4.2	4.2	4.8	4.2	4.4	3.4	3.4
155	3.4	3.6	3.8	4.4	3.6	4.2	3.4	3.4
160	3.0		3.4	4.0	3.2	3.8	3.2	3.2
165	2.6		3.0	3.6	2.8	3.4	2.8	3.2
170	2.2		2.6	3.2	2.4	3.0	2.4	3.0
175	1.8		2.2	2.8	2.0	2.6	2.0	2.6
180	1.4		2.0		1.8	2.2	1.6	2.2
185			1.6			1.8		1.8
190						1.4		1.6

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load charts

16



171 ft.
(52 m)



32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Hydraulic Luffing
Stationary



52,600 lbs.
(23 859 kg)



100%
23' spread



360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.4	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	10.0	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	9.4	9.4	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	9.0	9.0	9.0	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	8.4	8.4	8.6	7.4	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	7.6	7.6	8.2	7.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	7.0	7.0	7.4	6.8	6.4	5.8	5.8	5.6	5.4	4.0	4.0	4.0
125	6.2	6.2	6.8	6.6	6.4	5.8	5.6	5.4	5.2	4.0	4.0	4.0
130	5.6	5.6	6.0	6.0	6.0	5.6	5.4	5.2	5.0	4.0	4.0	4.0
135	5.0	5.0	5.4	5.4	5.4	5.6	5.0	5.0	5.0	4.0	4.0	4.0
140	4.4	4.4	4.8	4.8	4.8	5.6	4.6	4.6	4.8	4.0	4.0	4.0
145	3.8	3.8	4.2	4.2	4.2	5.0	4.0	4.0	4.6	3.8	3.8	3.8
150	3.2	3.2	3.6	3.8	3.8	4.4	3.6	3.6	4.2	3.4	3.4	3.6
155	2.8	2.8	3.2	3.4	3.4	4.0	3.2	3.2	3.8	3.0	3.0	3.6
160	2.4	2.4		2.8	2.8	3.4	2.6	2.6	3.4	2.6	2.6	3.2
165	2.0	2.0		2.4	2.4	3.0	2.2	2.2	3.0	2.2	2.2	2.8
170	1.6	1.6		2.0	2.0	2.6	1.8	1.8	2.4	1.8	1.8	2.4
175				1.6	1.6	2.2	1.6	1.6	2.0	1.4	1.4	2.0
180									1.6			1.6
185												


GMK4115

GROVE

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load charts

17

- 
171 ft.
(52 m)
- 
32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Hydraulic Luffing
Loads Luffing
- 
52,600 lbs.
(23 859 kg)
- 
100%
23' spread
- 
360°



Pounds x1000

Radius	170.6' + 32.8'		170.6' + 55.8'		170.6' + 72.2'		170.6' + 88.6'	
	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°
35								
40	10.8							
45	10.8							
50	10.8	9.4						
55	10.8	9.4	7.2					
60	10.8	9.4	7.2		5.8			
65	10.8	9.4	7.2		5.8			
70	10.8	9.4	7.2	6.0	5.8		4.0	
75	10.8	9.4	7.2	6.0	5.8	5.2	4.0	
80	10.4	9.4	7.2	6.0	5.8	5.2	4.0	4.0
85	10.0	9.4	7.0	6.0	5.8	5.2	4.0	4.0
90	9.6	9.4	6.8	5.8	5.8	5.2	4.0	4.0
95	9.2	9.2	6.6	5.8	5.8	5.2	4.0	4.0
100	8.8	8.8	6.4	5.6	5.8	5.2	4.0	4.0
105	8.6	8.6	6.2	5.6	5.8	5.2	4.0	4.0
110	8.2	8.2	6.0	5.4	5.6	5.2	4.0	4.0
115	7.4	8.0	6.0	5.4	5.4	5.2	4.0	4.0
120	6.6	7.2	5.8	5.4	5.2	5.2	4.0	4.0
125	6.0	6.4	5.6	5.2	5.0	5.0	4.0	4.0
130	5.4	5.8	5.6	5.2	5.0	4.8	4.0	4.0
135	4.8	5.2	5.2	5.2	4.8	4.8	3.8	3.8
140	4.2	4.6	4.6	5.2	4.6	4.6	3.8	3.8
145	3.8	4.0	4.2	4.8	4.0	4.4	3.6	3.6
150	3.2	3.6	3.6	4.2	3.6	4.2	3.4	3.4
155	2.8	3.0	3.2	3.8	3.2	3.8	3.0	3.4
160	2.4		2.8	3.4	2.6	3.2	2.6	3.2
165	2.0		2.4	3.0	2.2	2.8	2.2	2.8
170	1.6		2.0	2.6	1.8	2.4	1.8	2.4
175			1.6	2.2	1.6	2.0	1.4	2.0
180						1.6		1.6
185								

GMK4115

load charts

18



171 ft.
(52 m)



32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Hydraulic Luffing
Stationary



42,900 lbs.
(19 459 kg)



100%
23' spread



360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°	0°	0°-20°	20°-40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.2	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	9.2	9.2	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	8.2	8.2	8.8	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	7.4	7.4	8.0	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	6.6	6.6	7.2	6.8	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	5.8	5.8	6.4	6.2	6.2	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	5.2	5.2	5.8	5.6	5.6	5.8	5.2	5.2	5.4	4.0	4.0	4.0
125	4.6	4.6	5.0	5.0	5.0	5.8	4.6	4.6	5.2	4.0	4.0	4.0
130	4.0	4.0	4.4	4.4	4.4	5.2	4.0	4.0	5.0	3.8	3.8	4.0
135	3.4	3.4	3.8	3.8	3.8	4.6	3.6	3.6	4.4	3.4	3.4	4.0
140	2.8	2.8	3.2	3.4	3.4	4.2	3.0	3.0	3.8	3.0	3.0	3.8
145	2.4	2.4	2.8	3.0	3.0	3.6	2.6	2.6	3.4	2.6	2.6	3.2
150	2.0	2.0	2.2	2.4	2.4	3.2	2.2	2.2	3.0	2.2	2.2	2.8
155	1.6	1.6	1.8	2.0	2.0	2.6	1.8	1.8	2.6	1.8	1.8	2.4
160				1.6	1.6	2.2			2.2			2.0
165						1.8			1.6			1.6
170												



GMK4115

GROVE

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load charts

19

- 
171 ft.
(52 m)
- 
32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Hydraulic Luffing
Loads Luffing
- 
42,900 lbs.
(19 459 kg)
- 
100%
23' spread
- 
360°



Pounds x1000

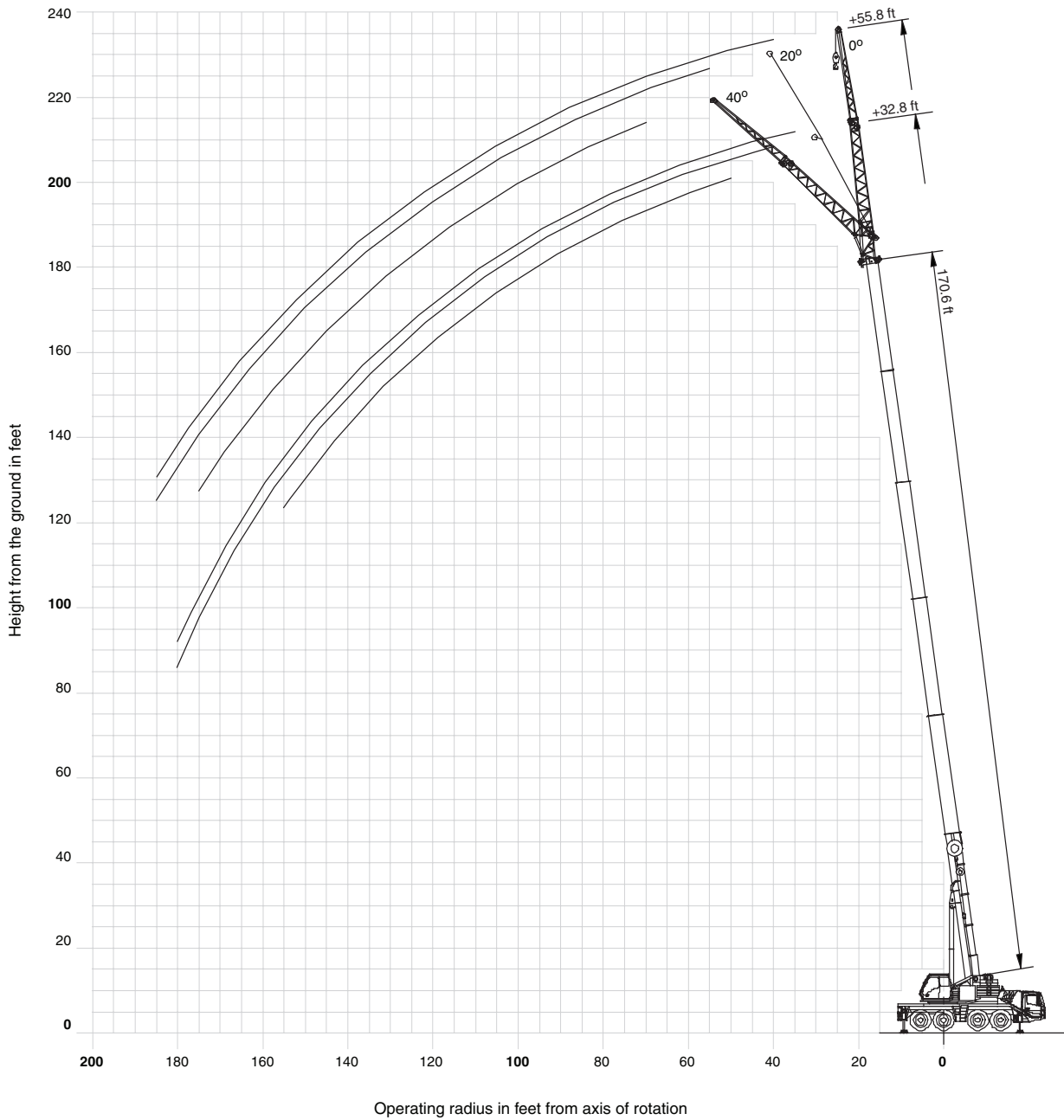
Radius	170.6' + 32.8'		170.6' + 55.8'		170.6' + 72.2'		170.6' + 88.6'	
	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°	0°-20°	20°-40°
35								
40	10.8							
45	10.8							
50	10.8	9.4						
55	10.8	9.4	7.2					
60	10.8	9.4	7.2		5.8			
65	10.8	9.4	7.2		5.8			
70	10.8	9.4	7.2	6.0	5.8		4.0	
75	10.8	9.4	7.2	6.0	5.8	5.2	4.0	
80	10.4	9.4	7.2	6.0	5.8	5.2	4.0	4.0
85	10.0	9.4	7.0	6.0	5.8	5.2	4.0	4.0
90	9.6	9.4	6.8	5.8	5.8	5.2	4.0	4.0
95	9.2	9.2	6.6	5.8	5.8	5.2	4.0	4.0
100	8.2	8.8	6.4	5.6	5.8	5.2	4.0	4.0
105	7.4	8.0	6.2	5.6	5.8	5.2	4.0	4.0
110	6.6	7.2	6.0	5.4	5.6	5.2	4.0	4.0
115	5.8	6.4	6.0	5.4	5.4	5.2	4.0	4.0
120	5.2	5.6	5.6	5.4	5.2	5.2	4.0	4.0
125	4.6	5.0	5.0	5.2	4.6	5.0	4.0	4.0
130	4.0	4.4	4.4	5.2	4.0	4.8	3.8	4.0
135	3.4	3.8	3.8	4.6	3.6	4.4	3.4	3.8
140	2.8	3.2	3.4	4.0	3.0	3.8	3.0	3.8
145	2.4	2.8	3.0	3.6	2.6	3.4	2.6	3.2
150	2.0	2.2	2.4	3.2	2.2	3.0	2.2	2.8
155	1.6	1.8	2.0	2.6	1.8	2.6	1.8	2.4
160			1.6	2.2		2.2		2.0
165				1.8		1.6		1.6
170								

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working range

171' Main Boom with Manual Offset 32.8 ft. and 55.8 ft. Swingaway

20



GMK4115

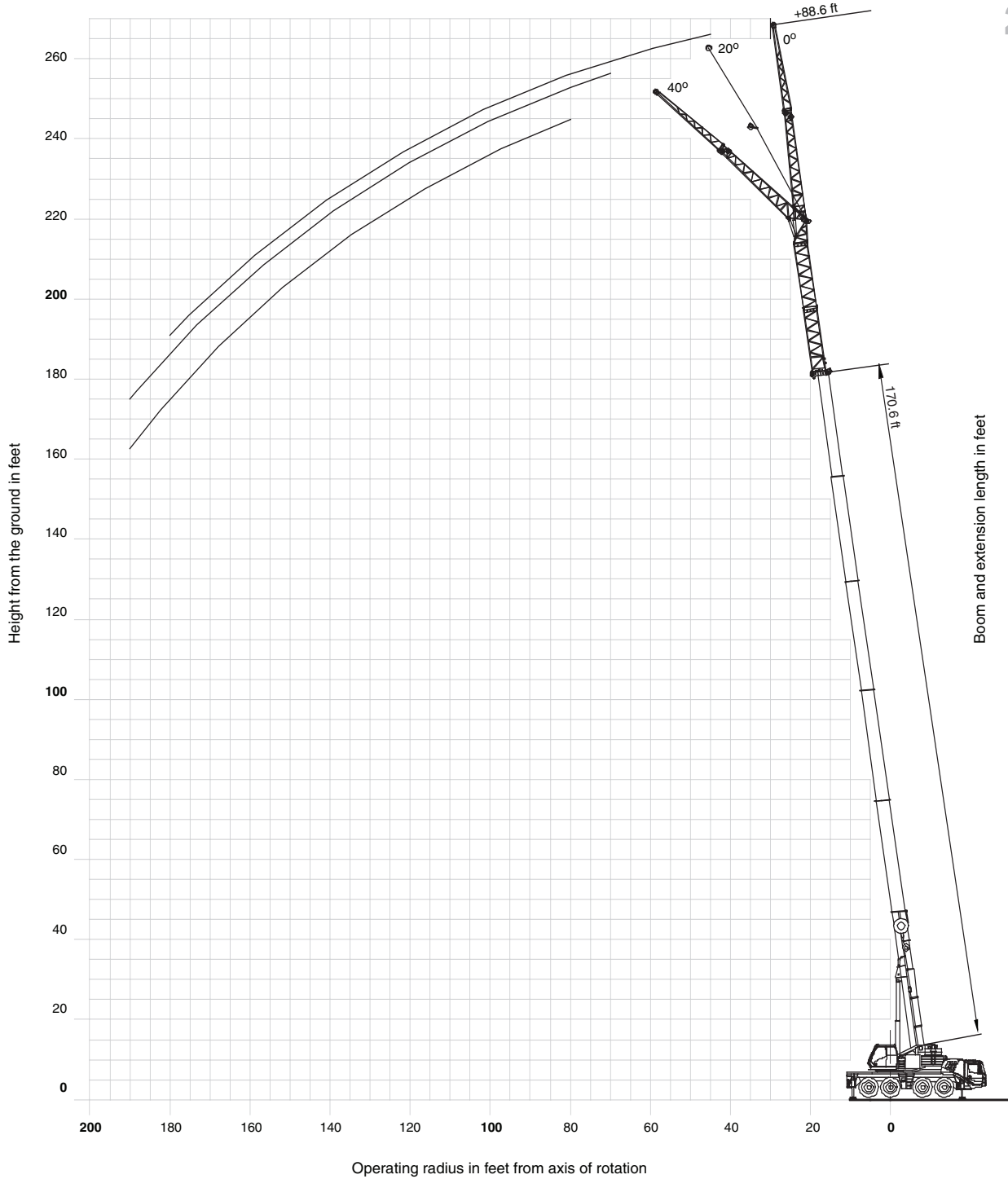
GROVE

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

171' Main Boom with Manual Offset 55.8 ft. Swingaway and 2 x 16 ft. Inserts

21



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load charts

22



171 ft.
(52 m)



32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Manual Offset



57,500 lbs.
(26 082 kg)



100%
23' spread



360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.4	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	10.0	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	9.4	9.4	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	9.0	9.0	9.0	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	8.4	8.6	8.6	7.4	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	8.0	8.2	8.4	7.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	7.4	7.6	8.0	6.8	6.4	5.8	5.8	5.6	5.4	4.0	4.0	4.0
125	7.0	7.2	7.6	6.6	6.4	5.8	5.6	5.4	5.2	4.0	4.0	4.0
130	6.4	6.8	7.0	6.4	6.2	5.6	5.4	5.2	5.0	4.0	4.0	4.0
135	5.8	6.2	6.4	6.0	6.0	5.6	5.2	5.0	5.0	4.0	4.0	4.0
140	5.0	5.4	5.6	5.6	5.8	5.6	5.0	4.8	4.8	4.0	4.0	4.0
145	4.6	4.8	5.0	5.0	5.6	5.6	4.8	4.6	4.6	3.8	3.8	3.8
150	4.0	4.4	4.4	4.4	5.2	5.4	4.2	4.6	4.6	3.6	3.6	3.6
155	3.4	3.8	3.8	4.0	4.6	5.0	3.8	4.4	4.4	3.6	3.6	3.6
160	3.0	3.2		3.6	4.2	4.4	3.4	4.0	4.2	3.2	3.4	3.4
165	2.6	2.8		3.0	3.6	4.0	2.8	3.6	4.0	2.8	3.2	3.4
170	2.2	2.4		2.6	3.2	3.4	2.4	3.0	3.4	2.4	3.0	3.2
175	1.8	2.0		2.2	2.8	3.0	2.0	2.6	3.0	2.0	2.6	3.0
180	1.4	1.6		2.0	2.4		1.8	2.2	2.4	1.6	2.2	2.6
185				1.6	2.0			1.8	2.0		1.8	2.2
190					1.6			1.4	1.6		1.6	1.8

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GROVE

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load charts

23



171 ft.
(52 m)



32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Manual Offset



52,600 lbs.
(23 859 kg)



100%
23' spread



360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.4	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	10.0	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	9.4	9.4	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	9.0	9.0	9.0	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	8.4	8.6	8.6	7.4	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	7.6	8.2	8.4	7.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	7.0	7.4	7.8	6.8	6.4	5.8	5.8	5.6	5.4	4.0	4.0	4.0
125	6.2	6.8	7.0	6.6	6.4	5.8	5.6	5.4	5.2	4.0	4.0	4.0
130	5.6	6.0	6.4	6.0	6.2	5.6	5.4	5.2	5.0	4.0	4.0	4.0
135	5.0	5.4	5.6	5.4	6.0	5.6	5.0	5.0	5.0	4.0	4.0	4.0
140	4.4	4.8	5.0	4.8	5.6	5.6	4.6	4.8	4.8	4.0	4.0	4.0
145	3.8	4.2	4.4	4.2	5.0	5.6	4.0	4.6	4.6	3.8	3.8	3.8
150	3.2	3.6	3.8	3.8	4.4	5.0	3.6	4.2	4.6	3.4	3.6	3.6
155	2.8	3.2	3.2	3.4	4.0	4.4	3.2	3.8	4.2	3.0	3.6	3.6
160	2.4	2.6		2.8	3.4	3.8	2.6	3.4	3.8	2.6	3.2	3.4
165	2.0	2.2		2.4	3.0	3.2	2.2	3.0	3.2	2.2	2.8	3.2
170	1.6	1.8		2.0	2.6	2.8	1.8	2.4	2.8	1.8	2.4	2.8
175				1.6	2.2	2.4	1.6	2.0	2.4	1.4	2.0	2.4
180					1.8			1.6	2.0		1.6	2.0
185									1.4			1.6

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GROVE

load charts

24



171 ft.
(52 m)



32.8-55.8-72.2-88.6 ft
(10-17-22-27 m)
Manual Offset



42,900 lbs.
(19 459 kg)



100%
23' spread



360°



Pounds x1000

Radius	170.6' + 32.8'			170.6' + 55.8'			170.6' + 72.2'			170.6' + 88.6'		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
35	10.8											
40	10.8	10.8		7.4			5.8					
45	10.8	10.8		7.4			5.8			4.0		
50	10.8	10.8	10.0	7.4			5.8			4.0		
55	10.8	10.8	10.0	7.7	7.4		5.8			4.0		
60	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
65	10.8	10.8	10.0	7.4	7.4		5.8	5.8		4.0		
70	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8		4.0	4.0	
75	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	
80	10.8	10.8	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
85	10.8	10.4	10.0	7.4	7.4	6.2	5.8	5.8	5.6	4.0	4.0	4.0
90	10.2	10.0	9.8	7.4	7.2	6.2	5.8	5.8	5.6	4.0	4.0	4.0
95	9.2	9.8	9.6	7.4	7.2	6.0	5.8	5.8	5.6	4.0	4.0	4.0
100	8.2	8.8	9.2	7.4	7.0	6.0	5.8	5.8	5.6	4.0	4.0	4.0
105	7.4	8.0	8.4	7.4	6.8	6.0	5.8	5.8	5.6	4.0	4.0	4.0
110	6.6	7.2	7.6	6.8	6.8	5.8	5.8	5.8	5.6	4.0	4.0	4.0
115	5.8	6.4	6.8	6.2	6.6	5.8	5.8	5.6	5.6	4.0	4.0	4.0
120	5.2	5.8	6.0	5.6	6.4	5.8	5.2	5.6	5.4	4.0	4.0	4.0
125	4.6	5.0	5.4	5.0	5.8	5.8	4.6	5.4	5.2	4.0	4.0	4.0
130	4.0	4.4	4.8	4.4	5.2	5.6	4.0	5.0	5.0	3.8	4.0	4.0
135	3.4	3.8	4.0	3.8	4.6	5.2	3.6	4.4	5.0	3.4	4.0	4.0
140	2.8	3.2	3.4	3.4	4.2	4.6	3.0	3.8	4.4	3.0	3.8	4.0
145	2.4	2.8	3.0	3.0	3.6	4.2	2.6	3.4	4.0	2.6	3.2	3.8
150	2.0	2.2	2.4	2.4	3.2	3.6	2.2	3.0	3.4	2.2	2.8	3.4
155	1.6	1.8	2.0	2.0	2.6	3.0	1.8	2.6	3.0	1.8	2.4	2.8
160				1.6	2.2	2.6		2.2	2.6		2.0	2.4
165					1.8	2.0		1.6	2.0		1.6	2.0
170						1.6			1.6			1.6

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GROVE

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notes

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notes

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GROVE

notes

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