



### **Grove GMK7550**

### **Product Guide**



- 60 m (197 ft) five-section boom
- 25 m 79 m (82 ft 259 ft) lattice luffing jib
- 120 t (264,500 lb) counterweight with hydraulic installation/removal system

### **Features**

#### MEGATRAK™

The MEGATRAK™ suspension system is the best off-road driveline available on the market today. The system's versatility and performance allows the GMK7550 to operate as a true all-terrain crane. The 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. MEGATRAK™ provides true ground clearance where others just raise the chassis.

Other benefits of the MEGATRAK™ system are:

- A reliable suspension system
- Excellent job site maneuverability with all-wheel steering
- Commonality among almost all models
- A driveline that remains aligned at all times
- A steering linkage system that is protected against damage
- Constant tire contact for equal tire wear
- Reduced maintenance



#### TWIN-LOCK™

Boom pinning mechanism automatically pins the sections in position using two horizontal pins.







#### **ECOS**

Electronic Crane Operating System - ECOS enables control of the entire crane's principle operations. Simple programming eases lift planning and a supply of essential information allows full concentration on the lift itself.





#### EKS 5

The EKS 5 monitors the lifting conditions of the crane at all times and provides a full graphic display, rear lighting, graphic of boom telescoping percentage, and load charts.



## **Contents**

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### **Specifications**

#### Superstructure



#### **Boom**

16 m - 60 m (53 ft - 197 ft) five section, full power boom with patented TWIN-LOCK™ boom pinning system. Maximum tip height: 63 m (207 ft).



#### **Boom elevation**

Two lift cylinders with safety valves provide boom angles from -1.2° to +82°.



#### \*Lattice jib

Luffing jib is a lattice design with lengths of 25 m - 79 m (82 ft -259 ft) in sections of 6,2 m (20 ft) and 12,2 m (40 ft). The luffing jib converts to a fixed offset lattice jib providing lengths of 12 m - 70 m (39 ft -230 ft) offsettable at 3° and 25°.



### Load moment and anti-two block system

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



#### Cab

All aluminum construction cab is tiltable (approximately 20°) and includes safety glass and adjustable operator's seat. Other features include engine independent hot water heater including 24 hour timer, air conditioning, armrest integrated crane controls, and ergonomically arranged instrumentation. Cab hydraulically stows to the rear of the superstructure for highway travel.



#### Swing

Three axial piston fixed displacement motors provide swing speed of 0 - 1.1 RPM thru planetary gear box. Also provided is a spring applied, hydraulically released automatic swing brake with foot operated release for free swing.



#### Counterweight

120 t (264,500 lb) consisting of various sections with hydraulic installation/removal system (see counterweight configuration on page 10).



#### **Engine**

Mercedes OM906LA, diesel, 6 cylinders, water cooled, turbocharged, 205 kW (279 hp) at 1800 rpm. Max. torque: 1100 Nm (811 ft/lb) at 1200 rpm. Engine emission: EUROMOT/EPA/CARB (off highway).



#### Fuel tank capacity

300 L (79 gal).



#### Hydraulic system

Five separate circuits, Three axial piston variable displacement pumps with electronic power limiting control, 1 axial piston variable displacement pump for slewing and 1 fixed displacement pump for auxiliary gears. Standard thermostatically controlled oil coolers keep oil at optimum operating temperature. Tank capacity: 1570 L (415 gal)



#### 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.



#### Electrical system

24 V system with three-phase alternator 28 V/100 A 2 batteries 12 V/170 Ah.



### **Specifications**

#### Superstructure continued



#### 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.

	Main Auxiliary	Auxiliary
Line length	460 m (1509 ft)	690 m (2264 ft)
Rope diameter	24 mm	24 mm
Line speed	130 m/min (427 fpm)	130 m/min (427 fpm)
Line pull	110 kN (24,729 lb)	104 kN (23,380 lb)

Hoist cameras and lights included.

#### \*Optional equipment

- Second spotlight on superstructure cab
- Stereo/CD player
- Lift enhancement system (MegaWingLift)
  - Additional 40 t (88,200 lb) counterweight for MegaWingLift
- Worklights on boom base section
- Aircraft warning lights
- Hook blocks
- Adapter for heavy duty jib
- ≥ 360° positive swing lock

#### Carrier



#### Chassis

Special seven-axle carrier, welded 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%) - 8,9 m (29.2 ft) Partially extended (50%) - 6,1 m (20 ft)

Four 810 mm x 810 mm (32 in x 32 in), self stowing, steel outrigger pads provide rigid lifting base. Outrigger controls are located on both sides of the carrier. Electronic level indicators with automatic levelling system. Outrigger pad load indication through ECOS and carrier controls.



#### **Engine**

Mercedes, diesel, 8 cylinders, water-cooled, turbocharged, 420 kW (563 hp) at 1800 rpm. Max. torque: 2700 Nm (1991 ft lb) at 1300 rpm. Engine emission: EUROMOT/EPA/CARB (off-highway).



#### Fuel tank capacity

500 L (132 gal).



#### **Transmission**

Allison automatic 4800 SP-R, seven forward and one reverse speed. Transfer case with two speeds and inter-axle differential lock. Hydraulic transmission retarder



#### Drive/steer

14x6x14



### **Specifications**

#### Carrier continued



#### **Axles**

Seven axles. 1, 4 and 5 are drive/steer. Axles 2, 3, 6 and 7 are steer only.



#### Suspension

GMK7550 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 170 mm (6 - 1/2 in) or lowered 130 mm 5 in) both longitudinally and transversely and features an automatic leveling system for on-highway travel.



#### Tires

14 tires, 16.00 R25.



#### Steering

Dual circuit steering system is hydraulic power assisted with emergency steering pump. Axles 1, 2, 3, 6 and 7steer on highway. Separate steering of the 4th, 5th,6th and 7th axles for all wheel steer and crab-steer, 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 7. An air dryer is fitted to remove moisture from the air system. Standard engine compression brake and transmission retarder.



#### Cab

Two-man, aluminum construction driver's cab includes the following features: safety glass; driver seat with pneumatic suspension, engine-dependent hot water heater and air conditioning. Complete instrumentation and driving controls.



#### Electrical system

24 V system with three-phase alternator 28 V/100 A, 2 batteries 12 V/170 Ah.



#### Maximum speed

85 km/h (53 mph) with 20.5 R25 tires.



#### Gradeability (theoretical)

32% with 20.5 R25 tires (14x6x14) 50% with 20.5 R25 tires (14x8x14)

#### Miscellaneous standard equipment

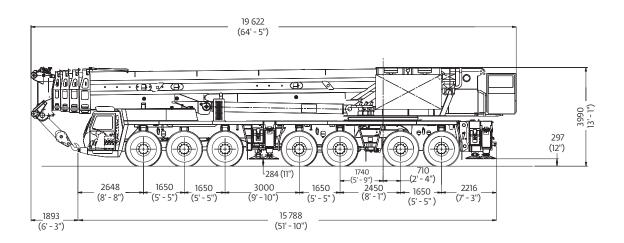
Boom removal kit; trailing boom kit (less dolly), additional hydraulic oil cooler; removable rear outrigger box; tool kit; fire extinguisher; radio/cd player in carrier cab.

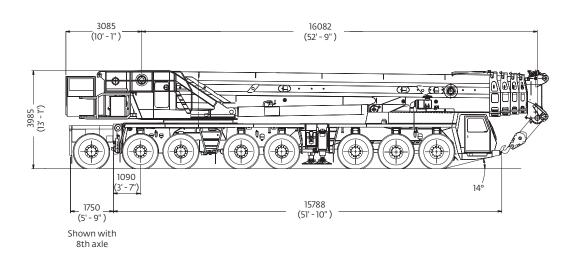
#### \*Optional equipment

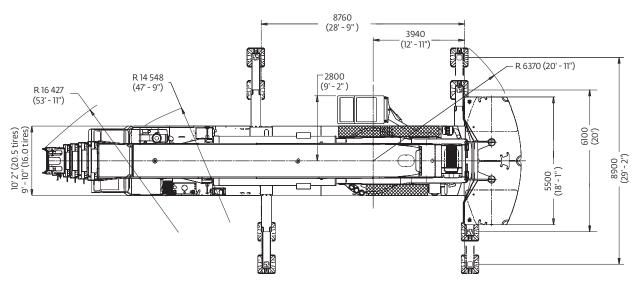
- 14 x 8 x 14 (1,2,4 and 5 are drive/steer)
- Engine-independent hot water heater, with engine pre-heater
- 14 tires, 14.00 R25 (385/95 R25)
- 14 tires, 20.5 R25 (525/80 R25). Vehicle width 3,1 m (10.2 ft)
- Aluminum rims
- Auxiliary axle, pinned when rear outrigger box is removed
- Hinged bunk bed
- Working range limiter
- Reversing camera system
- Engine shutdown valves (for both engines)



### **Dimensions**





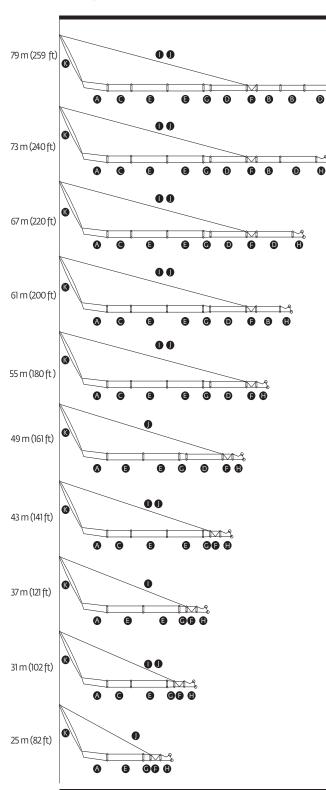




## **Dimensions**

#### Luffing jib combinations

Without angle offset



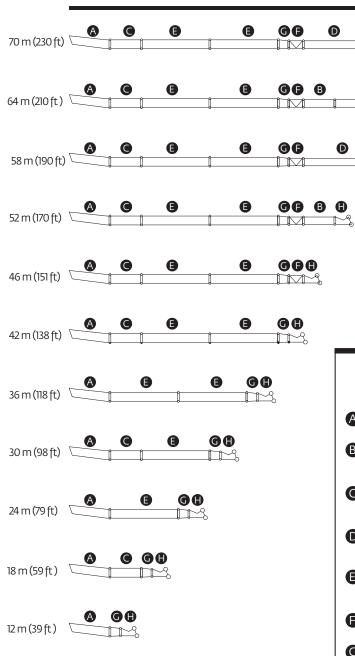
Description	Length x width x height m (ft)	Weight in kg (lb)
Foot Section	8.80 x 1.80 x 2.50 (28.87 x 5.90 x 8.20)	3700 (8160
Short intermediate sections, small cross-section, each	6.20 x 1.50 x 1.500 (20.34 x 4.91 x 4.91)	900 (1985)
Short intermediate sections, large cross-section, each	6.20 x 1.80 x 1.90 (20.34 x 5.90 X 6.23)	1000 (2205)
Long intermediate sections, small cross- section, each	12.20 x 1.50 x 1.50 (40.03 x 4.91 x 4.91)	1600 (3530)
Long intermediate sections, large cross- section, each	12.20 x 1.80 x 1.90 (40.03 x 5.90 x 6.23)	1600 (3530)
Angle piece	3.70 x 1.50 x 1.80 (12.14 x 4.91 x 5.90)	1600 (3530)
Reducing piece	1.20 x 1.80 x 1.90 (3.94 x 5.90 x 6.23)	500 (1105)
Head piece	3.20 x 1.50 x 2.10 (10.50 x 4.91 x 6.89)	1200 (2650)
Rear pendant link for short intermediate section	6.20 x 0.20 x 0.20 (20.34 x 0.70 x 0.70)	200 (440)
Rear pendant link for long intermediate section	12.20 x 0.20 x 0.20 (40.03 x 0.70 x 0.70 80)	400 (880)
Luffing control arm with fall-back guard strut	12.20 x 2.10 x 1.80 (40.03 x 6.89 x 5.90)	3200 (*7055)



### **Dimensions**

#### Lattice boom extension combinations

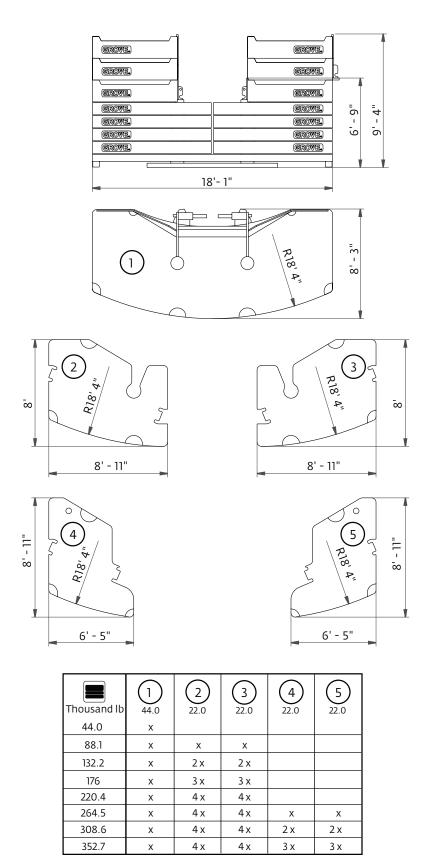
Without angle offset



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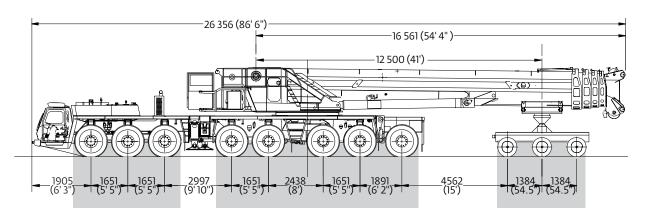
## Counterweight





### **Travel proposals**

#### Trailing boom dolly with 8th axle



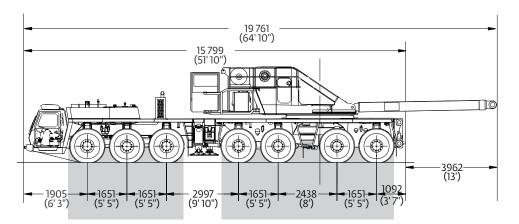
	Axles 1 - 3	Axles 4 - 8	Dolly	Total GVW
Boom in dolly over rear, rear outrigger box removed, 8th ayle installed	26 254 kg (57,879 lb)	38 388 kg (84,631 lb)	26 822 kg (59,132 lb)	91 464 kg (201,642 lb)

#### Unit equipped with:

- 20.5 tires on aluminum rims axles 1 through 8
  Operator, 75 kg (165 lb)
- Welded on MEGAWINGLIFT hardware
- Dolly weight: 3900 kg (8600 lb)

Allow 3% variation in weight due to manufacturing tolerances

#### Boom removed, superstructure over rear



	Axles 1 - 3	Axles 4 - 7	Total GVW
Boom removed, superstructure over rear	16 717 kg	34 879 kg	51 597 kg
	(36,855 lb)	(76,895 lb)	(113,750 lb)

#### Unit equipped with:

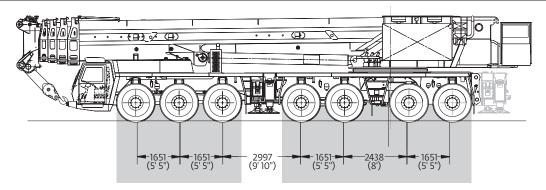
- Rear outrigger box removed
- 20.5 tires on aluminum rims
- Operator, 75 kg (165 lb)



<sup>^&#</sup>x27;'¬w 3% variation in weight due to manufacturing tolerances

### **Travel proposals**

#### Boom over front



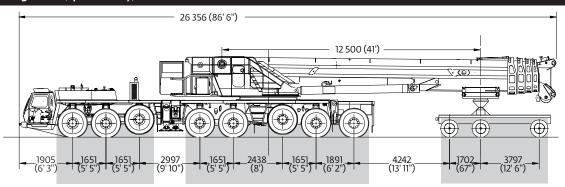
	Axles 1 - 3	Axles 4 - 7/8	Total GVW
Boom over front, rear outrigger box removed	37 724 kg	47 502 kg	85 226 kg
	(83,167 lb)	(104,722 lb)	(187,889 lb)
Boom over front, rear outrigger box installed	33 762 kg	58 193 kg	91 955 kg
	(74,431 lb)	(128,292 lb)	(202,723 lb)
Boom over front,	43 562 kg	44 000 kg	87 563 kg
8th axle installed	(96,038 lb)	(97,003 lb)	(193,041 lb)

- Unit equipped with:

   20.5 tires on aluminum rims
- Operator, 75 kg (165 lb)
- Welded on MEGAWINGLIFT hardware

Allow 3% variation in weight due to manufacturing tolerances

#### Trailing boom (spread dolly) with axles 3 and 6 raised



Axies I - 2	Axies 4, 5, 7, 8	Dolly	Total GVW
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Boom in dolly over rear, rear outrigger box removed, 8th axle installed, axles 3 and 6 raised	23 899 kg (52,689 lb)	40 743 kg (89,821 lb)	27 485 kg (60,594 lb)	92 127 kg (203,104 lb)
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#### Unit equipped with:

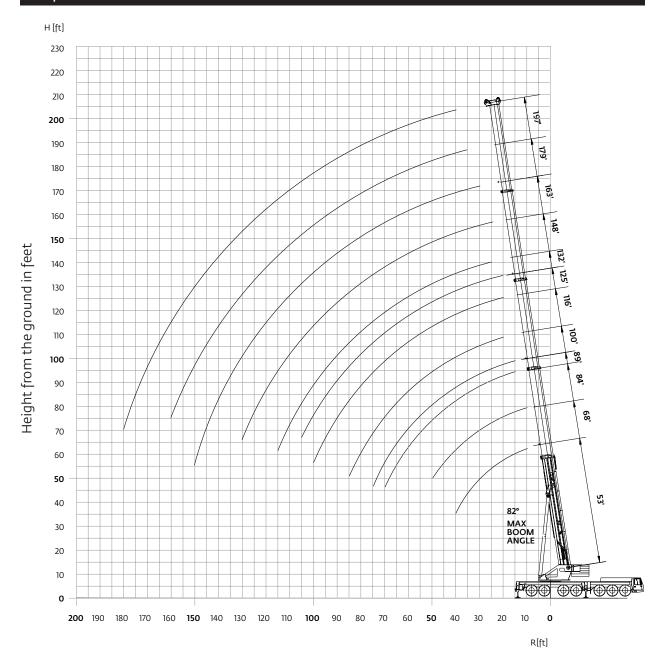
- 20.5 tires on aluminum rims axles 1 through 8
- Operator, 75 kg (165 lb)
- Welded on MEGAWINGLIFT hardware
- 3 axle dolly (4563 kg (10,000 lb])

Allow 3% variation in weight due to manufacturing tolerances



### Working range Main boom

#### 197 ft main boom



Operating radius in feet from axis of rotation

Hook heights shown in the working diagram do not consider loaded boom deflection.



#### Main boom









						usands)	Pounds (the							7
10	196.9	196.	179.2	163.4	147.6	131.7	125.1	115.9	100.1	88.9	84.3	68.4	52.6	
10													*******	0
15												624.0		
20										300.0	400.0			10
25 370.0 374.0 374.0 300.0 368.0 346.0 256.0 254.0 381.0 318.0 320.0 298.0 318.0 316.0 232.0 228.0 204.0 181.0 35 276.0 280.0 280.0 270.0 278.0 282.0 206.0 207.0 186.0 168.0 146.0 40 242.0 244.0 246.0 238.0 244.0 246.0 187.0 186.0 168.0 155.0 141.0 40 242.0 244.0 246.0 185.0 199.0 217.0 170.0 170.0 154.0 142.0 131.0 100.0 196.0 185.0 195.0 193.0 154.0 155.0 141.0 131.0 122.0 194.0 196.0 185.0 195.0 193.0 154.0 155.0 141.0 131.0 122.0 155.0 144.0 143.0 145.0 129.0 121.0 114.0 60 159.0 144.0 159.0 147.0 159.0 157.0 174.0 143.0 145.0 129.0 121.0 114.0 106.0 65 144.0 136.0 144.0 142.0 121.0 128.0 111.0 104.0 98.0 131.0 122.0 131.0 122.0 130.0 127.0 111.0 119.0 102.0 97.0 92.0 130.0 127.0 111.0 119.0 102.0 97.0 92.0 130.0 159.0 117.0 140.0 195.0 100.0 183.0 85 90 97.0 94.0 86.0 98.0 84.0 79.0 75.0 90.0 87.0 100.0 10							204.0	272.0	410.0					15
30						254.0							438.0	20
35				101.0	204.0									25
40			146.0											
45	123.0	122												35
50         194.0         196.0         185.0         195.0         193.0         154.0         155.0         141.0         131.0         122.0           55         176.0         165.0         175.0         174.0         143.0         145.0         129.0         121.0         114.0           60         159.0         147.0         159.0         157.0         132.0         136.0         120.0         111.0         106.0           65         144.0         136.0         144.0         142.0         121.0         118.0         102.0         97.0         98.0           70         131.0         122.0         130.0         127.0         111.0         119.0         102.0         97.0         92.0           75         109.0         117.0         114.0         104.0         113.0         96.0         90.0         87.0           80         106.0         104.0         95.0         107.0         90.0         83.0         81.0           85         97.0         94.0         86.0         98.0         84.0         79.0         75.0         71.0           95         84.0         70.0         82.0         75.0         72.0         66.0	119.0			155.0		170.0	187.0			238.0			242.0	
55         176.0         165.0         175.0         174.0         143.0         145.0         129.0         121.0         114.0           60         159.0         147.0         159.0         157.0         132.0         136.0         120.0         111.0         106.0           65         144.0         136.0         144.0         142.0         121.0         128.0         111.0         104.0         98.0           70         131.0         122.0         130.0         127.0         111.0         119.0         102.0         97.0         92.0           75         109.0         117.0         114.0         104.0         113.0         166.0         90.0         97.0         92.0           80         106.0         104.0         95.0         107.0         90.0         87.0         88.0         88.0         84.0         79.0         75.0         75.0         79.0         75.0         79.0         75.0         71.0         95.0         107.0         90.0         88.0         98.0         84.0         79.0         75.0         71.0         95.0         75.0         70.0         68.0         68.0         75.0         75.0         70.0         68.0         68.0<	112.0													
60	105.0		122.0				134.0			165.0		194.0		
65	98.0		106.0		129.0		143.0							
70	92.0		08.0											
75	86.0													
80	80.0		97.0				104.0				131.0			
85 97.0 94.0 86.0 98.0 84.0 79.0 75.0 70.0 87.0 78.0 90.0 79.0 75.0 71.0 87.0 78.0 90.0 79.0 75.0 71.0 95 84.0 70.0 82.0 75.0 75.0 70.0 68.0 100 79.0 75.0 70.0 68.0 100 69.0 60.0 60.0 60.0 60.0 60.0 105 59.0 70.0 69.0 62.0 60.0 60.0 110 60.0 60.0 60.0 60.0 60.	76.0									109.0				
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105     59.0     70.0     69.0     62.0     60.0       110     56.0     65.0     66.0     59.0     56.0       115     61.0     62.0     56.0     53.0       120     57.0     52.0     51.0       135     54.0     49.0     49.0       136     46.0     44.0       140     43.4     41.2       145     40.6     38.6       150     38.2     36.0	60.0													
110     56.0     65.0     66.0     59.0     56.0       115     61.0     62.0     56.0     53.0       120     57.0     52.0     51.0       125     54.0     49.0     49.0       130     50.0     47.0     46.0       135     46.0     43.4     41.2       140     43.4     41.2       145     40.6     38.6       150     38.2     36.0	57.0							75.0						
115     61.0     62.0     56.0     53.0       120     57.0     52.0     51.0       125     54.0     49.0     49.0       130     50.0     47.0     46.0       135     46.0     44.0       140     43.4     41.2       145     40.6     38.6       150     38.2     36.0	54.0													
120 57.0 52.0 51.0 125 54.0 49.0 49.0 130 50.0 47.0 46.0 135 46.0 44.0 43.4 41.2 145 40.6 38.6 150 38.2 36.0	51.0						30.0							
125     54.0     49.0     49.0       130     50.0     47.0     46.0       135     46.0     44.0       140     43.4     41.2       145     40.6     38.6       150     38.2     36.0	47.0					01.0								
130 50.0 47.0 46.0 135 46.0 44.0 140 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1	45.0													
135     46.0     44.0       140     43.4     41.2       145     40.6     38.6       150     38.2     36.0	43.4													
140 43.4 41.2 145 40.6 38.6 150 38.2 36.0	41.4				55.0									
145 150 40.6 38.6 38.2 36.0	39.6													
150 38.2 36.0	37.6													
	35.8													
	33.8													
160 31.4	31.6													
165	29.4													
170	27.6													
175	25.8													
180	24.2													

Loads > 420,000 lb can only be lifted with additional equipment  $^{\circ}$  Over rear, 20 ft outrigger span, with special equipment



60 m	100 000 kg	29 ft 2 in spread	360
197 ft)	(220,400 lb)	(100%)	

							Pounds (th	ousands)				
Feet	52.6	68.4	84.3	88.9	100.1	115.9	125.1	131.7	147.6	163.4	179.2	196.9
8	*788.0											
10	664.0	624.0										
15	526.0	524.0	496.0	300.0								
20	428.0	432.0	432.0	300.0	410.0	372.0	284.0					
25	360.0	364.0	364.0	300.0	362.0	346.0	256.0	254.0				
30	308.0	312.0	312.0	298.0	310.0	314.0	232.0	228.0	204.0	181.0		
35	264.0	268.0	268.0	262.0	272.0	270.0	206.0	207.0	186.0	168.0	146.0	
40	228.0	232.0	236.0	226.0	236.0	234.0	187.0	186.0	168.0	155.0	141.0	123.0
45		206.0	208.0	196.0	207.0	205.0	170.0	170.0	154.0	142.0	131.0	119.0
50		180.0	183.0	172.0	183.0	180.0	154.0	155.0	141.0	131.0	122.0	112.0
55			159.0	150.0	158.0	155.0	143.0	145.0	129.0	121.0	114.0	105.0
60 65			139.0	130.0	139.0	136.0	127.0	136.0	120.0	111.0	106.0	98.0
05			123.0	115.0	123.0	120.0	111.0	124.0	111.0	104.0	98.0	92.0
70			110.0	108.0 96.0	109.0	109.0 102.0	98.0	111.0	102.0	97.0 90.0	92.0	86.0
75				96.0	98.0 89.0	93.0	87.0	99.0 90.0	94.0	83.0	87.0 81.0	80.0
80 85					81.0		80.0 75.0		88.0	78.0	75.0	76.0
85					81.0	84.0 77.0	70.0	82.0 74.0	83.0 76.0	78.0 71.0	75.0 71.0	72.0 67.0
90 95						71.0	65.0	68.0	69.0	67.0	67.0	63.0
100						65.0	60.0	64.0	64.0	63.0	61.0	60.0
105						05.0	55.0	61.0	59.0	58.0	56.0	56.0
110							50.0	57.0	54.0	54.0	52.0	52.0
115							30.0	53.0	50.0	49.0	48.0	48.0
120								33.0	46.0	46.0	43.8	44.0
125									44.0	42.4	40.4	40.6
130									41.2	39.4	37.4	37.6
135										36.4	34.6	34.6
140										34.0	32.0	32.0
145										31.6	29.6	29.6
150										29.4	27.2	27.4
155											25.2	25.4
160											23.4	23.4
165												21.6
170												20.0
175												18.4
180												17.0

Loads > 420,000 lb can only be lifted with additional equipment  $^{\circ}$  Over rear, 20 ft outrigger span, with special equipment

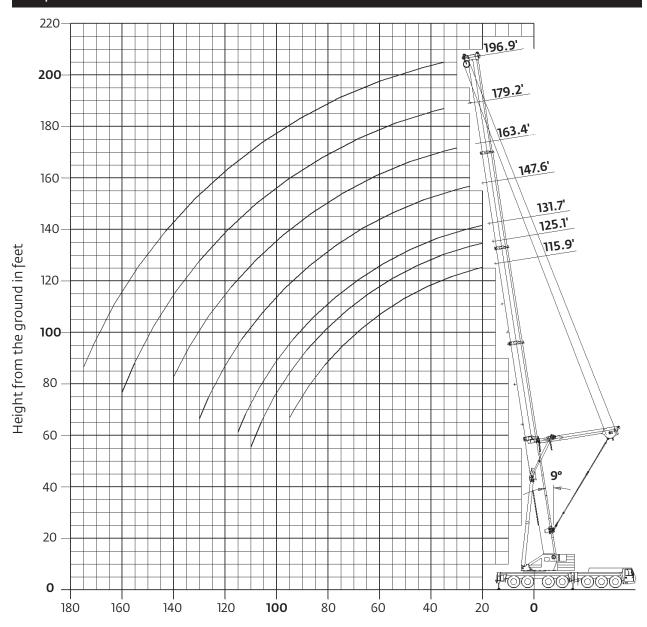


Main boom

16,0 m - 6 (53 ft - 19)		0 000 kg 76,300 lb)	29 ft 2 in spr (100%)	ead	<b>Q</b> 360°							
						F F	ounds (thou	ısands)				
Feet	52.6	68.4	84.3	88.9	100.1	115.9	125.1	131.7	147.6	163.4	179.2	196.9
8 10 15 20 25 30 30 35 40 40 55 65 65 65 65 65 60 65 70 75 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 Loads > 42 Lo	650.0 512.0 418.0 352.0 294.0 295.0 203.0	624 0 514 0 420 0 354 0 298 0 298 0 713 0 176 0 149 0	496. 0 420. 0 354. 0 298. 0 258. 0 216. 0 180. 0 153. 0 103. 0 91. 0	300.0 300.0 300.0 290.0 246.0 206.0 170.0 143.0 129.0 112.0 91.0 83.0	410.0 352.0 300.0 256.0 215.0 215.0 131.0 100.0 94.0 85.0 76.0 76.0	372.0 346.0 296.0 296.0 242.0 203.0 174.0 188.0 105.0 84.0 68.0 68.0 53.0	284 0 256.0 232.0 206.0 187.0 187.0 188.0 199.0 98.0 78.0 78.0 70.0 62.0 55.0 49.0 46.0	254.0 228.0 207.0 186.0 150.0 150.0 150.0 102.0 90.0 84.0 77.0 69.0 63.0 63.0 63.0 48.0 41.0	204 .0 186. 0 168. 0 154. 0 139. 0 121.0 112.0 102. 0 92. 0 82. 0 74. 0 68. 0 62. 0 56. 0 51. 0 47. 0 47. 0 43. 2 39. 6 36. 4 33. 6 31. 0	181.0 168.0 155.0 142.0 131.0 119.0 105.0 96.0 89.0 81.0 73.0 66.0 66.0 654.0 50.0 45.0 41.4 37.8 34.6 31.8 29.2 26.8 22.6 20.8	146.0 141.0 131.0 122.0 114.0 105.0 94.0 85.0 77.0 63.0 53.0 43.4 39.4 36.0 32.8 29.8 27.2 24.8 22.6 18.6 16.8 15.2	123.0 119.0 112.0 105.0 98.0 98.0 92.0 83.0 75.0 68.0 62.0 56.0 52.0 47.0 43.6 39.6 36.2 33.0 30.0 27.4 25.0 22.6 18.6 17.0 15.2 18.6 17.0 18.6 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0
16,0 m - 6 (53 ft - 19)	0 m 6 7 ft) (1:	0 000 kg 32,200 lb)	29 ft 2 in spre (100%)	· ·	<b>Q</b> 360°	i i	Pounds (thou	isands)				
Feet	52.6	68.4	84.3	88.9	100.1	115.9	125.1	131.7	147.6	163.4	179.2	196.9
10 15 20 25 30 35 40 45 50 66 75 85 90 105 110 115 125 130 145 145 155 165 175	634.0 500.0 406.0 336.0 268.0 205.0 162.0	624. 0 400. 0 410. 0 276. 0 276. 0 171. 0 114. 0 118. 0	496.0 410.0 340.0 278.0 219.0 175.0 124.0 106.0 92.0 81.0 71.0	300.0 300.0 300.0 254.0 208.0 172.0 119.0 107.0 93.0 82.0 72.0 64.0	408.0 338.0 262.0 774.0 144.0 195.0 95.0 95.0 55.0 55.0 55.0	372.0 314.0 244.0 199.0 170.0 145.0 125.0 108.0 94.0 74.0 66.0 59.0 59.0 48.0 48.0 48.0 49.0	284.0 2256.0 226.0 182.0 181.0 181.0 100.0 88.0 75.0 60.0 49.0 44.0 44.0 40.2 36.6 33.2	254.0 228.0 194.0 161.0 119.0 106.0 94.0 106.0 94.0 59.0 59.0 59.0 48.0 48.2 39.2 39.2 35.6 32.2 29.2	204.0 179.0 150.0 133.0 101.0 89.0 71.0 64.0 58.0 52.0 46.0 41.8 37.8 37.2 20.8 22.8 20.6	181.0 168.0 143.0 1127.0 110.0 96.0 85.0 67.0 67.0 64.0 44.0 44.0 36.0 32.4 29.0 23.4 21.0 18.8 15.0 13.4 11.8	146.0 141.0 121.0 191.0 91.0 91.0 63.0 55.0 55.0 45.0 45.0 33.4 46.0 33.4 33.4 22.2 22.2 24.2 24.2 24.2 21.6 8.3 11.2 9.8 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11	123.0 116.0 101.0 88.0 69.0 61.0 55.0 49.0 44.0 40.0 36.2 32.6 49.0 21.6 24.0 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6
Loads > 42	20,000 lb ca	in only be lifte	ed with additio									
16,0 m - 4 (53 ft - 148		0 kg (0 lb)	29 ft 2 in spr (100%)	_	G 360°	anucar del						
Feet	52.6	68.4	84.3	88.9	Pounds (th	115.9	125.1	131.7	147.6			
10 15 20 25 30 35 40 45 50 55 60 65 70	52.6 586.0 440.0 199.0 114.0 72.0 49.0 34.0	58.4 584.0 180.0 111.0 75.0 53.0 38.6 28.2 20.6	302.0 163.0 106.0 74.0 54.0 40.6 30.8 23.4 17.6 13.0 9.2 6.0	278.0 159.0 104.0 73.0 54.0 41.0 31.4 24.0 18.2 13.6 9.8 6.8	146.0 99.0 71.0 53.0 40.4 31.4 24.4 18.8 14.2 10.6 7.6 5.0	130.0 90.0 66.0 50.0 38.2 29.8 23.0 17.8 13.6 10.0 7.0 4.4	124.0 87.0 64.0 49.0 37.6 29.4 23.0 17.8 13.6 10.2 7.2 4.8	81.0 60.0 45.0 34.8 27.0 20.8 16.0 11.8 8.4 5.6	53.0 40.2 30.6 23.4 17.6 13.0 9.2 6.0			

# Working range With MegaWingLift

#### 197 ft main boom



Operating radius in feet from axis of rotation

Hook heights shown in the working diagram do not consider loaded boom deflection.



With MegaWingLift

35,3 m - 60 m (116 ft - 197 ft







				Pounds (thous	ands)			
Feet	115.9	125.1	131.7	147.6	163.4	179.2	196.9	
20	352.0	270.0	330.0					
25	324.0	254.0	310.0	298.0				
30	298.0	242.0	280.0	268.0	222.0	213.0		
35	274.0	230.0	258.0	244.0	211.0	200.0	167.0	
40	242.0	219.0	240.0	226.0	200.0	186.0	158.0	
45	222.0	209.0	219.0	212.0	190.0	175.0	149.0	
50	200.0	195.0	197.0	193.0	181.0	164.0	142.0	
55	182.0	180.0	181.0	175.0	172.0	154.0	134.0	
60	166.0	167.0	166.0	163.0	161.0	146.0	127.0	
65	153.0	153.0	153.0	152.0	147.0	138.0	121.0	
70	140.0	141.0	140.0	139.0	138.0	130.0	115.0	
75	129.0	130.0	129.0	128.0	127.0	124.0	110.0	
80	120.0	120.0	120.0	119.0	118.0	116.0	104.0	
85	111.0	112.0	111.0	110.0	109.0	108.0	100.0	
90	104.0	104.0	104.0	103.0	102.0	100.0	96.0	
95	97.0	97.0	97.0	96.0	95.0	93.0	91.0	
100		91.0	91.0	90.0	89.0	87.0	87.0	
105		86.0	85.0	84.0	83.0	82.0	82.0	
110		73.0	80.0	79.0	78.0	77.0	77.0	
115			71.0	75.0	73.0	72.0	72.0	
120				70.0	69.0	68.0	68.0	
125				67.0	65.0	63.0	64.0	
130				58.0	61.0	60.0	60.0	
135					58.0	56.0	56.0	
140					54.0	53.0	53.0	
145						49.0	50.0	
150						46.0	47.0	
155						43.6	44.0	
160						38.4	41.4	
165							39.0	
170							36.8	
175							33.8	







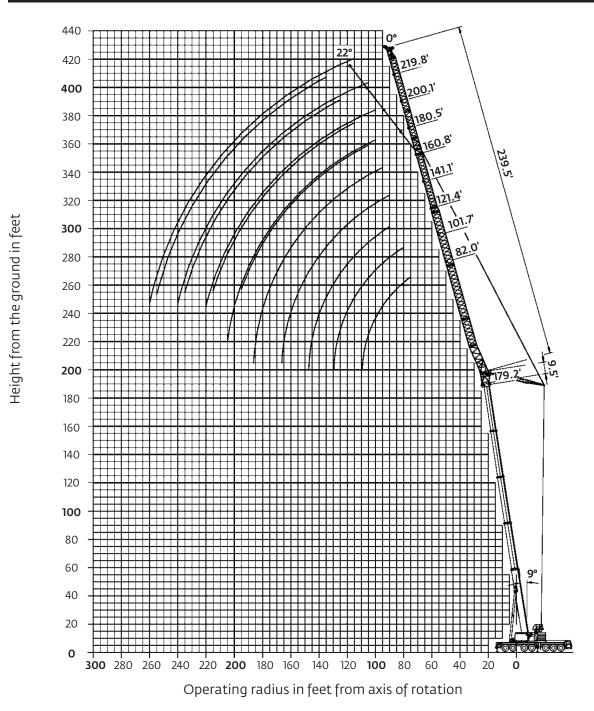


				Pounds (tho	usands)			
Feet	115.9	125.1	131.7	147.6	163.4	179.2	196.9	
20	252.0	270.0	220.0					
20	352.0	270.0	330.0	200.0				
25	324.0	254.0	310.0	298.0				
30	298.0	242.0	280.0	268.0	222.0	213.0		
35	260.0	230.0	258.0	244.0	211.0	200.0	167.0	
40	236.0	219.0	232.0	226.0	200.0	186.0	158.0	
45	208.0	204.0	206.0	202.0	190.0	175.0	149.0	
50	185.0	186.0	186.0	185.0	180.0	164.0	142.0	
55	167.0	167.0	167.0	166.0	165.0	154.0	134.0	
60	151.0	152.0	151.0	150.0	149.0	146.0	127.0	
65	137.0	138.0	138.0	137.0	136.0	134.0	121.0	
70	125.0	126.0	125.0	124.0	123.0	122.0	115.0	
75	115.0	115.0	115.0	114.0	112.0	111.0	110.0	
80	104.0	105.0	104.0	103.0	102.0	100.0	100.0	
85	94.0	95.0	95.0	93.0	92.0	90.0	91.0	
90	86.0	87.0	86.0	85.0	84.0	82.0	83.0	
95	79.0	80.0	79.0	78.0	77.0	75.0	76.0	
100		74.0	73.0	72.0	71.0	69.0	69.0	
105		68.0	67.0	66.0	65.0	63.0	64.0	
110		63.0	63.0	61.0	60.0	58.0	59.0	
115			58.0	57.0	56.0	54.0	54.0	
120				53.0	52.0	50.0	50.0	
125				49.0	48.0	46.0	46.0	
130				46.0	45.0	42.8	43.0	
135					41.4	39.6	40.0	
140					38.6	36.8	37.2	
145						34.2	34.4	
150						31.8	32.0	
155						29.6	29.8	
160						27.6	27.6	
165							25.8	
170							23.8	
175							22.2	



## Working range

#### 82 ft - 240 ft luffing jib - 81° main boom



Hook heights shown in the working diagram do not consider loaded boom deflection.



Nil. 16,0 (52.6









81° 0 m + 2,9 m 5 ft + 9.5 ft)	25 m - 73 m (82 ft - 240 ft)	120 000 kg (264,500 lb)	29 ft 2 in spread (100%)	

<b>3</b>					Pounds (thou	sands)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
40	169.0	144.0							
45	160.0	140.0							
50 55	151.0	136.0	114.0	92.0					
60	142.0	132.0 129.0	111.0	91.0 89.0	72.0				
65	134.0 128.0	125.0	109.0 106.0	88.0 88.0	73.0 72.0				
70	118.0	123.0	104.0	86.0	72.0	56.0	42.6		
75	102.0	118.0	102.0	84.0	69.0	54.0	41.4	32.6	
75 80	86.0	108.0	99.0	84.0 83.0	67.0	53.0	40.4	31.6	23.4
85	70.0	96.0	96.0	81.0	65.0	52.0	39.2	30.8	22.8
90 95 100		86.0	93.0	80.0	64.0	50.0	38.2	29.8	22.0
95		75.0	88.0	78.0	62.0	49.0	37.2	29.0	21.4 20.6
100		65.0	80.0	76.0	61.0	47.0	36.2	28.0	20.6
105			73.0	74.0	59.0	46.0	35.2	27.0	20.0 19.4
110			65.0	71.0	58.0	45.0	34.4	26.2	19.4
115			58.0	68.0	57.0	43.6	33.4	25.2	18.8 18.2
120			51.0	62.0	56.0	42.6	32.6	24.2	18.2
125 130				57.0 51.0	54.0	41.6	31.8 31.0	23.2 22.6	17.6 17.2
135				46.0	53.0 50.0	40.6 39.6	30.2		17.2
140				40.0	47.0	38.8	29.4	22.0 21.4	16.6 16.0
145					43.2	38.0	28.4	20.8	15.4
145 150					39.6	37.0	27.6	20.2	15.4 15.0
155					36.2	36.2	26.6	19.6	14.6
160					30.2	35.0	26.6 25.8	19.2	14.6 14.2
165						33.4	24.8	18.6	13.6
170						31.8	24.4	18.2	13.6 13.2
175						29.6	23.8 23.2	17.8	12.8 12.4
180							23.2	17.2	12.4
185							22.8	16.8	12.0 11.6
190							22.2	16.4	11.6
195							21.6	15.8	11.2 11.0
200 205								15.6	11.0
205								15.2 14.8	10.6 10.2
210 215								14.8	9.8
220								17.4	9.8 9.6
225									9.2
230									9.0
225 230 235									8.6
									0.0







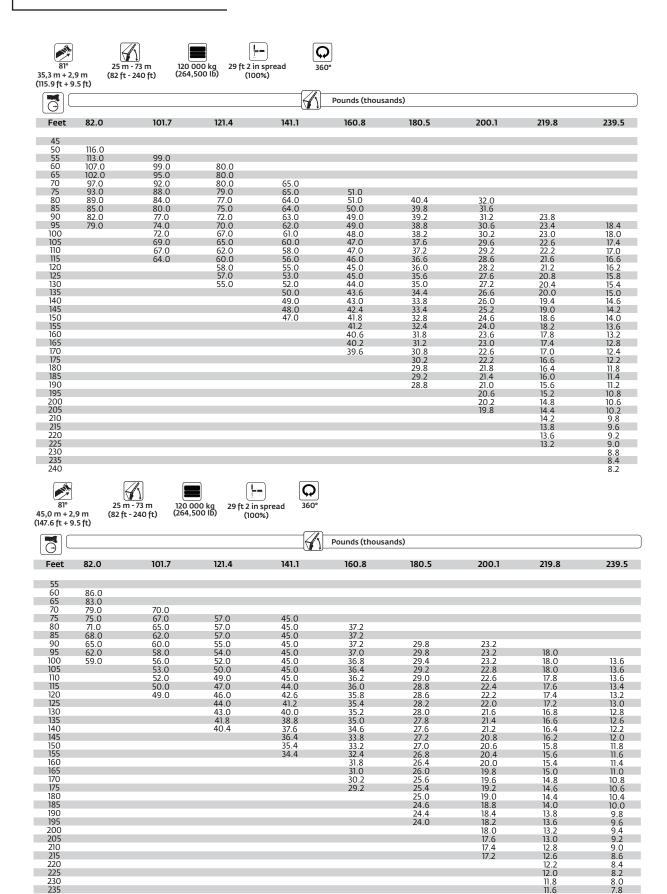




<b>3</b> ][					Pounds (t	housands)			
eet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
10									
15	154.0								
50	145.0	125.0							
55	137.0	123.0	100.0						
50	129.0	120.0	99.0	79.0					
55	122.0	118.0	98.0	79.0					
0	117.0	116.0	97.0	79.0	63.0				
'5	112.0	113.0	95.0	78.0	62.0	49.0	38.4		
0	107.0	111.0	93.0	77.0	61.0	48.0	37.6	29.6	
35	100.0	109.0	92.0	76.0	60.0	47.0	36.8	28.6	
0	81.0	105.0	90.0	75.0	59.0	46.0	36.0	27.8	21.0
15		98.0	89.0	74.0	58.0	45.0	35.0	26.8	20.4
00		87.0	88.0	73.0	57.0	44.0	34.2	26.0	20.0
)5		75.0	87.0	72.0	55.0	43.2	33.6 32.8	25.0	19.4
0		62.0	81.0	71.0	54.0	42.2	32.8	24.4	18.8
15			75.0	70.0	53.0	41.4	32.0	23.8	18.2
.0			67.0	69.0	52.0	40.6	31.2	23.2	17.6
5				68.0	51.0	39.8	30.6	22.6 22.0	17.2
0				64.0	50.0	39.0	29.8	22.0	16.6
5				59.0	48.0	38.0	29.2	21.4	16.2
0				53.0	47.0	37.4	28.6	21.0	15.8
5					45.0	36.6	27.8 27.2	20.4	15.2
0					43.6	35.8	27.2	20.0	14.8
55					42.2	35.2	26.4	19.4 18.8	14.4
0					40.6	34.4	25.8	18.8	14.0
5						33.6	25.0	18.4	13.6
0						33.0	24.2	18.0	13.2
'5						32.4	23.4	17.6	12.8
30						31.8	22.8	17.0	12.4
35							22.4	16.6	12.0
90 95							22.0	16.2	11.6
95							21.4 21.0	15.8 15.4	11.2
00							21.0	15.4	10.8
05								15.0	10.6
10								14.6	10.2
15								14.2	9.8
20								13.8	9.6
225									9.2 9.0
230									9.0
									8.6



240





7.6 7.4

Mil 81°









49,8 m + 2,9 m (82 ft - 240 ft) (163.4 ft + 9.5 ft)

 $\overline{\Theta}$ Pounds (thousands) Feet 82.0 101.7 121.4 141.1 160.8 180.5 200.1 219.8 239.5 65 70 75 80 85 90 95 100 105 110 115 120 67.0 64.0 57.0 62.0 59.0 57.0 55.0 57.0 55.0 45.0 45.0 45.0 37.0 37.0 37.0 53.0 51.0 29.2 29.2 45.0 37.0 45.0 44.0 37.0 37.0 29.2 29.2 23.8 23.6 19.2 14.6 14.6 50.0 48.0 10.8 29.2 29.2 29.2 29.2 46.0 45.0 43.2 41.8 37.0 37.0 23.6 23.4 19.0 18.8 14.6 14.4 10.8 40.6 39.2 36.6 35.8 23.2 23.2 18.6 18.6 14.4 14.2 10.8 10.6 43.4 130 135 140 23.0 22.8 18.4 18.2 14.0 10.4 33.0 32.0 28.8 28.6 22.6 22.6 18.0 17.8 13.6 13.6 10.2 35.8 145 150 155 160 165 170 22.4 22.2 31.0 30.0 28.2 27.8 17.6 17.6 13.4 13.2 29.2 27.4 27.0 22.0 21.8 17.4 17.2 13.0 12.8 9.4 9.4 26.2 25.4 24.8 21.8 21.6 21.4 17.0 16.8 12.6 12.6 9.2 170 175 180 185 190 195 200 16.6 12.4 8.8 8.6 21.2 16.4 12.2 21.0 20.6 20.4 12.0 11.8 8.4 8.4 16.2 16.0 16.0 15.8 15.6 15.4 11.6 11.4 8.2 8.0 7.8 7.6 205 210 215 220 225 230 235 11 2 11.0 7.4 7.2 15.2 10.6 7.0 7.0 240 245 250 255 6.8

Mil 81° 54,6 m + 2,9 m (179.2 ft + 9.5 ft)







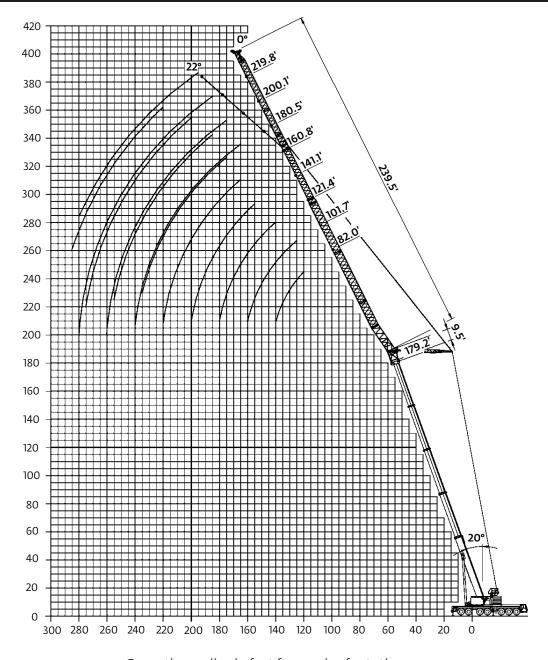


				P	ounds (thousands	:)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
70									
75	55.0								
80	55.0	45.0							
85	55.0	45.0							
90	53.0	45.0	36.6	29.8					
95	51.0	45.0	36.6	29.8	23.8				
100	49.0	45.0	36.6	29.8	23.8	19.6	15.2		
105	47.0	43.2	36.6	29.8	23.8	19.6	15.2	11.6	
110	45.0	41.8	36.6	29.8 29.8	23.8	19.4	15.2	11.6	
115	13.0	40.4	36.6	29.8	23.8	19.4	15.2	11.6	8.4
120		39.0	36.2	29.8	23.8	19.4	15.0	11.6	8.4
125		37.8	35.2	29.8	23.8	19.2	15.0	11.6	Q.4
130		36.4	34.0	29.8	23.0	19.2	15.0	11.4	8.4 8.2
135		50.4	33.0	29.8	23.8 23.8	19.0	14.8	11.4	8.2
140			32.0	29.2	23.8	19.0	14.8	11.2	8.2 8.0
145			31.0	28.4	23.0	18.8	14.6	11.2	8.0
150			30.0	27.4	23.8 23.8	18.8 18.8	14.6 14.6	11.0	8.0 7.8
155			30.0	26.6	23.6	18.6	14.4	11.0	7.0
160				25.8	23.4	18.6	14.4	10.8	7.8 7.6
165				25.2	23.2	18.4	14.2	10.8	7.6
170				24.4	23.0	18.4	14.2	10.6	7.0
175				24.4	22.4	18.2	14.2	10.4	7.4
180					21.8	18.2	14.0 13.8	10.4	7.4
185					21.2	18.0	12.0	10.2	7.2
190					20.4	18.0	13.8 13.6	10.2	7.0
195					20.4	17.6	13.6	10.2	7.0
200						17.0	13.4	10.0	6.8 6.8
205						16.8	13.4	9.8	6.6
210						10.0	13.2	9.6	6.6 6.6
215							13.0	9.6	6.0
220							13.0	9.4	6.4 6.2
225							13.0	9.2	6.2
230								9.2	6.0
235								9.2	0.0
235 240								9.0 8.8	5.8 5.8
240 245								٥.٥	5.8
245 250									5.6 5.6
250 255									5.6
. 11									5.4
755									

## Working range

#### 82 ft - 240 ft luffing jib - 70° main boom

Height from the ground in feet



Operating radius in feet from axis of rotation

Hook heights shown in the working diagram do not consider loaded boom deflection.



25 m - 73 m 120 000 kg 29 ft 2 in spread (82 ft - 240 ft) (264,500 lb) (100%) Q

(52.0   0	,								
					ounds (thousands	3			
$\left[ \Theta \right] $					ounus (chousanus	·/			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
60	152.0								
65	142.0								
70 75	134.0								
75	128.0	125.0							
80	120.0	119.0							
85	112.0	112.0							
90	104.0	105.0	100.0	07.0					
95 100		98.0 92.0	97.0	81.0	64.0				
100		92.0 86.0	91.0 85.0	80.0 79.0	64.0 62.0				
110		78.0	80.0	77.0	61.0				
115		76.0	76.0	75.0	59.0	46.0			
120			72.0	71.0	58.0	45.0	34.4		
125			68.0	67.0	57.0	43.6	33.4	25.4	
130			68.0 61.0	64.0	56.0	42.6	32.6	24.4	
135			01.0	61.0	54.0	41.6	31.8	23.4	17.6
140				58.0	53.0	40.6	31.0	22.6	17.2
145				55.0	51.0	39.6 38.8 38.0	30.2	22.0	16.6
150				49.0	50.0	38.8	29.4	21.4	16.0
155					48.0	38.0	28.8	20.8	15.6
160					45.0	37.0	28.0	20.2	15.0
165					43.2	36.2	27.2	19.8	14.6
170					40.0	35.4	26.4	19.2	14.2
175 180						34.6 34.0	25.6 24.8	18.8 18.2	13.6 13.2
185						33.0	24.0	17.8	13.2
190						31.4	24.0 23.2	17.2	12.8 12.4
195						31.7	22.6	16.8	12.0
200							22.2	16.4	11.6
205							21.6	16.0	11.2
210								15.6	10.8
215								15.0	10.6
220								14.6	10.2
225								14.4	9.8
230									9.6
235									9.2
240									9.0
245									8.6

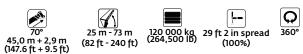
			<b>_</b>	Q
70°	25 m - 73 m	120 000 kg	29 ft 2 in spread	360°
75,7 m + 2,9 m	(82 ft - 240 ft)	(264,500 lb)	(100%)	

Pounds (thousands)									
eet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.
70									
70 75	116.0								
80 85	110.0								
85	104.0								
90 95	97.0	96.0							
95	90.0	89.0	89.0						
100	85.0	84.0	83.0						
105		78.0	78.0	75.0					
110		74.0	73.0	72.0					
115		70.0	69.0	68.0	57.0				
120		66.0	65.0	64.0	56.0				
125			62.0	61.0	55.0	42.4			
30			59.0	58.0	54.0	41.6	23.4		
135			56.0	55.0	53.0	40.8	31.4	22.0	
140 145			53.0	52.0 50.0	52.0	39.8	30.8	22.8	16
145 150				48.0	49.0 47.0	39.0 38.2	30.0 29.4	22.2	16.1 16.1
55				46.0	47.0 45.0	38.2 37.6	29.4	21.6 21.0	16.
60				43.6	43.2	36.8	28.0	20.4	15. 15.
165				43.0	43.2	36.0	27.2	20.4	10.4
170					39.6	35.2	26.4	19.4	14.
175					38.0	34.6	20.4	19.0	14.
80					36.4	33.8	25.6 24.8	18.6	14.0 13.0
185					50.4	33.2	24.0	18.0	13.
90						32.6	23.6	17.6	13.: 12.:
95						31.8	23.0	17.2	12.1
200						30.4	23.0 22.4	16.6	12.4 12.0
205						50.1	22.0	16.2	11.6
210							21.6	15.8	11.0 11.2
210 215							21.0	15.4	11 (
220							20.6	15.0	11.0 10.
225								14.6	10
230								14.4	10.2 10.0
235								14.0	9.6
240									9.6 9.4
240 245									9.0
250									8.8



70° 25 m - 73 m 120 000 kg 29 ft 2 in spread 360° (100%) (100%)

				M P	ounds (thousands	)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
85									
90	72.0								
95	69.0	63.0							
100 105	66.0 64.0	63.0 61.0	58.0						
1105	61.0	58.0	55.0						
110 115	59.0	56.0	53.0						
120	33.0	54.0	52.0	49.0					
125		52.0	50.0	48.0					
130		51.0	48.0	46.0					
135		50.0	47.0	44.0	43.0	26.0			
140			46.0 44.0	43.0	41.6	36.8	27.0		
145 150			42.8	41.6 40.4	40.4 39.0	36.8 35.8	27.8 27.4		
155			41.6	39.2	37.8	34.8	27.4 26.8	20.2	
160			11.0	38.0	36.8	34.0	26.2	19.6	14.8
165				37.0	36.8 35.6	33.0	26.2 25.6	19.2	14.4
170				36.0	34.6	32.0	25.0 24.2	18.8	14.0
175				35.0	33.6	31.2	24.2	18.4	13.8
180					32.8	30.2	23.6	18.0	13.4
185 190					31.6	29.4	23.2	17.6	13.0
190					30.4 29.2	28.6 27.8	22.8 22.4	17.2 16.8	12.6 12.2
200					29.2	27.0	22.4	16.4	12.0
205						26.0	21.6	16.0	11.6
210						25.0	21.0	15.8	11.2
215						24.0	20.6	15.4	11.0
220 225							20.2	15.0	10.6
225							19.8	14.6	10.4
230 235							19.6	14.2	10.0
235							19.2	14.0 13.6	9.8 9.4
245								13.4	9.4
250								15.4	8.8
255									8.6
260									8.4
265									8.0



				Pi	ounds (thousands)	)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 200 205 210 215 220 225 230 235 240 245 250 265 270 275	51.0 51.0 49.0 46.0 44.0 42.0 40.2	42.0 40.4 39.0 37.6 36.4 35.2 34.0 33.0	36.8 35.6 34.4 33.2 32.0 31.0 30.0 29.0 28.2 27.4	32.0 30.8 29.8 28.8 27.8 27.0 26.0 25.4 24.8 24.0 23.4 22.8	28.8 27.8 26.8 25.8 25.0 24.4 23.8 23.0 22.4 21.6 21.0 20.4 19.8	24.6 24.2 23.4 22.6 21.8 21.0 20.4 19.0 18.4 17.8 17.2 16.8 16.2 15.8	21.4 21.2 20.8 20.2 19.6 19.0 18.4 17.2 16.6 16.0 15.6 15.0 14.6 14.0 13.2	16.4 16.2 16.0 15.8 15.6 15.2 15.0 14.8 14.6 14.2 14.0 13.6 13.4 13.0 12.6 12.2 11.8 11.4	11.8 11.4 11.2 11.0 10.8 10.6 10.2 10.0 9.8 9.6 9.4 9.0 8.8 8.6 8.4 8.2 8.0 7.6 7.2 7.0











	1 -				1				
					Pounds (thousa	nds)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
110									
115 120	39.0								
120	37.6	35.2							
125 130	36.2	33.8							
130	35.0	32.6							
135	33.8	31.6	29.6						
140 145		30.4	28.6	25.4					
145		29.4	27.6	25.4					
150 155		28.4	26.6	24.6					
155		27.6	25.8	24.0	22.0	70.4			
160 165 170			25.0	23.2	23.0	19.4	17.0		
105			24.4	22.4	22.2 21.4	19.4	17.2		
170			23.6	21.6	20.6	18.6	17.2	12.6	
175 180			23.0	21.0 20.2	20.0	18.0	16.8 16.2	13.6	
180				20.2	19.2	17.4	16.2	13.4	0.6
185 190 195				19.6 19.0	18.6	16.6 16.0	15.6 15.0	13.2 13.2	9.6 9.6
100				18.4	18.0	16.0			9.6
200				10.4	17.4	15.6 15.0	14.6 14.0	12.8 12.4	9.4 9.2
200					16.8	14.4	13.4	12.4	9.2
203					16.2	14.0	13.4	11.6	9.0 9.0
205 210 215 220					15.8	13.4	12.6	11.2	9.0
210					15.2	13.4	12.0	10.8	8.8 8.6
225					13.2	12.6	11.6	10.8	0.0
225 230						12.0	11.2	10.0	8.4 8.2
235						11.6	10.8	9.6	8.0
240						11.0	10.4	9.4	8.0 7.8
235 240 245 250 255 260							10.0	9.0	7.6
250							9.8	8.6	7.6 7.2
255							9.4	8.2	7.0
260							3.1	8.0	7.0 6.8
265								7.6	6.6
265 270								7.4	6.6 6.2
275								7.0	6.0
275 280								7.0	6.0 5.8
285									5.4

70° 25 m - 73 m 120 000 kg 29 ft 2 in spread 54,6 m + 2,9 m (82 ft - 240 ft) (264,500 lb) (100%)







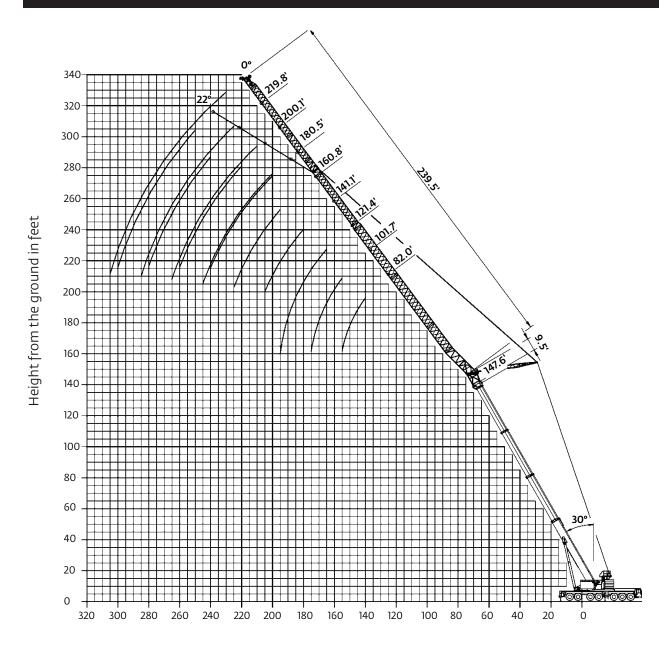


(179.2 ft +	3.3 [6]				Pounds (thousar	nds)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
115									
115 120	35.0								
125	33.6	29.8							
130 135	32.4	28.8							
135	31.2	27.6							
140 145	30.2	26.8 25.8	25.0						
145		25.8	24.4						
150 155		25.2	23.4						
155		24.4 23.6	22.6 21.8	20.6					
160 165		23.6	21.8	19.8	10.2	15.4			
170			21.2	19.2	18.2	15.4			
170 175 180 185			20.4 19.8	18.4 17.8	17.4 16.8	15.4 14.8	12.8		
120			19.2	17.0	16.2	14.8	12.8		
185			19.2	17.2 16.6	15.6	13.8	12.4	10.6	
190				16.0	15.0	13.0	12.0	10.6	
190 195				16.0 15.6	15.0 14.6	13.2 12.6	11.4	10.2	7.6
200				15.0	14.0	12.0	11.0	9.8	
205				15.0	13.6	12.2 11.6 11.2 10.8	11.0 10.6	9.8 9.4	7.0
210					13.0	11.0	10.0	9.0	7.4
215					12.6	10.8	9.6	8.6	7.1
220					12.2	10.4	9.2	8.4	7.0
200 205 210 215 220 225 230 235						10.0	9.0	8.0	7.6 7.4 7.4 7.2 7.0 6.6 6.4 6.0 5.8 5.4 5.2
230						9.6	8.6	7.6 7.2	6.4
235						9.2	8.2	7.2	6.0
240						8.8	7.8	7.0 6.6	5.8
245							7.4	6.6	5.4
250							7.2	6.2	5.2
240 245 250 255 260 265 270 275 280							6.8	6.0	4.8
260							6.6	5.6	4.6
265								5.4	4.4 4.0 3.8
2/0								5.2	4.0
2/5								4.8	3.8
280								4.6	3.6



# Working range

#### 82 ft - 240 ft luffing jib - 60° main boom



Operating radius in feet from axis of rotation

Hook heights shown in the working diagram do not consider loaded boom deflection.



6,0 m + 2,9 m (82 ft - 240 ft) (264,500 lb) (100%)

<b>3</b>				<b>1</b>	Pounds (thousa	ınds)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
90	100.0								
95	94.0	93.0							
100	88.0	87.0							
105		82.0	81.0						
110		77.0	76.0						
115		73.0	72.0						
120		69.0	68.0	67.0					
125			64.0	63.0					
130			61.0	60.0					
135			58.0	57.0	57.0				
140			56.0	55.0	54.0	43.6			
145				52.0	52.0	41.6			
150				50.0	49.0	40.6	20.2		
155				48.0	47.0	39.6	30.2		
160				46.0	45.0	38.8	29.4	20.0	
165					43.2	37.8 37.0	28.6	20.8	
170					41.4	37.0	28.0	20.2	
175					39.8	36.2	27.2	19.6	14.0
180 185						35.4 34.6	26.4	19.2	14.0
190						34.0	25.4 24.4	18.6	13.6 13.2
195						33.8 33.2	23.8	18.2 17.6	13.2
200						33.2	23.0	17.0	12.8 12.4
200							22.6	16.8	12.4
205 210							22.0	10.0	12.0 11.6 11.2 10.8
215							21.6	16.4 15.8	11.0
220							21.0	15.4	10.8
225								15.0	10.6
230								14.8	10.6 10.2
235								14.4	9.8
240									9.8 9.6
245									9.2
245 250									9.2 9.0
255									8.6



		(4.5 (c. 1.5 (										
					Pounds (thousar	nds)						
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5			
95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255	82.0 77.0 72.0 68.0 64.0	63.0 60.0 57.0 54.0 51.0	56.0 53.0 50.0 48.0 46.0 43.4 41.6	47.0 44.0 42.4 40.4 38.6 37.0 35.4 34.0	39.6 37.8 36.2 34.6 33.2 31.8 30.6 29.4 28.2	37.0 35.4 33.8 32.4 31.0 29.8 28.6 27.4 26.2 25.2 24.2 23.4	28.0 27.4 26.8 26.0 25.4 24.8 23.8 23.0 22.4 21.8 21.0 20.2	19.4 19.0 18.4 18.0 17.6 17.2 16.6 16.2 15.8 15.4 15.0 14.6 14.4 14.0 13.6	13.2 12.8 12.4 12.0 11.6 11.2 11.0 10.6 0.6 0.9.6			
255 260 265 270 275								13.6	9.2 9.0 8.8 8.4 8.2			











29 ft 2 in spread (100%)

					1				
					Pounds (thous	ands)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
115									
115 120	51.0								
125	49.0								
130	47.0								
135	46.0	43.6							
140		42.2							
145		40.6	38.6						
150		38.8	37.4						
155		36.8	36.2						
160 165			34.4	33.2					
170			33.0 31.6	31.8 30.4					
175			30.2	29.0	28.2				
180			30.2	27.8	27.0				
185				26.6	25.8	25.0			
190				25.6	24.8	23.8			
195				24.4	23.8	23.8 22.8	22.0		
200					24.8 23.8 22.8 21.8	21.8	21.2		
205					21.8	21.0	20.2	17.6	
210					21.0	20.2	19.4	17.2	12.6 12.2
215					20.0	19.2	18.6	16.8	12.2
220 225						18.4 17.8	17.8 17.0	16.4 16.0	12.0 11.6
225						17.0	16.4	15.8	11.2
230 235						16.2	15.6	15.2	11.0
240						10.2	15.0	14.6	10.6
245							14.4	13.8	10.4
250								13.8 13.2	10.0
255								12.8	9.8
260								12.2	9.4 9.2
265								11.6	9.2
270									8.8
275 280									8.6
285									8.4 8.0
200									8.0









60° 45,0 m + 2,9 m (147.6 ft + 9.5 ft)

25 m - 73 m 120 000 kg (82 ft - 240 ft) (264,500 lb)

29 ft 2 in spread 360° (100%)

				<b></b>	Pounds (thousa	nds)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5
135									
140	33.4								
145	31.6								
145 150	30.0								
155	28.6	26.0							
160		25.2							
165 170		24.6	23.0						
170		23.8 23.0	22.2 21.4						
175 180		23.0	21.4	10.0					
180			20.8 20.2	18.8 18.2					
185			20.2	17.6					
190 195			19.6 18.8	17.0	16.0				
200			10.0	16.4	15.4	13.6			
200 205				16.0	15.0	13.2			
210				10.0	14.4	12.6	15.2		
210 215					14.0	12.2	12.6		
220 225					13.4	11.6	10.6		
225					13.0	11.2	10.2	9.2	
230 235						10.8	9.8	8.8	8.4 8.4
235						10.4	9.4	8.4	8.4
240 245						10.0	9.0 8.6	8.2 7.8	8.2
245						9.6	8.6	7.8	8.2 7.8 7.6 7.2
250 255							8.2 7.8	7.4 7.0	7.b 7.2
260							7.6	6.8	7.2
260 265							7.0	6.8 6.4	7.0 6.6
270							7.2	6.2	6.4
270 275								6.2 5.8	6.4 6.0
280 285								5.6	5.6 5.2
285								5.4	5.2
290 295									4.8 4.4
295									4.4
300 305									4.0 3.6
303									3.6









60° 49,8 m + 2,9 m (163.4 ft + 9.5 ft)

25 m - 61 m (82 ft - 200 ft)

120 000 kg 29 ft 2 in spread 264,500 lb (100%) Pounds (thousands) 

16316	Pounds (thousands)									
				•						
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1			
,	02.0	10117	12111		100.0	100.15	200.11			
140										
145	25.4									
150	24.8									
155	24.0									
160	23.2	21.2								
165		20.6								
170		19.8								
175		19.2	17.6							
180		18.6	17.0							
185			16.4	14.4						
190			15.8	14.0						
195			15.4	13.4						
200			14.8	13.0	11.4					
205 210				12.4	11.4	0.2				
215				12.0 11.6	11.0	9.2 8.8				
220				11.2	10.6 10.2	8.4	7.6			
225				11.2	9.8	8.0	7.0			
230					9.4	7.6	6.8			
235					9.0	7.2	6.4			
240					8.6	6.8	6.0			
245					0.0	6.6	5.8			
250						6.2	5.4			
255						6.0	5.2			
260						5.6	4.8			
265							4.6			
270							4.2			
275							4.0			
280							3.8			

Q

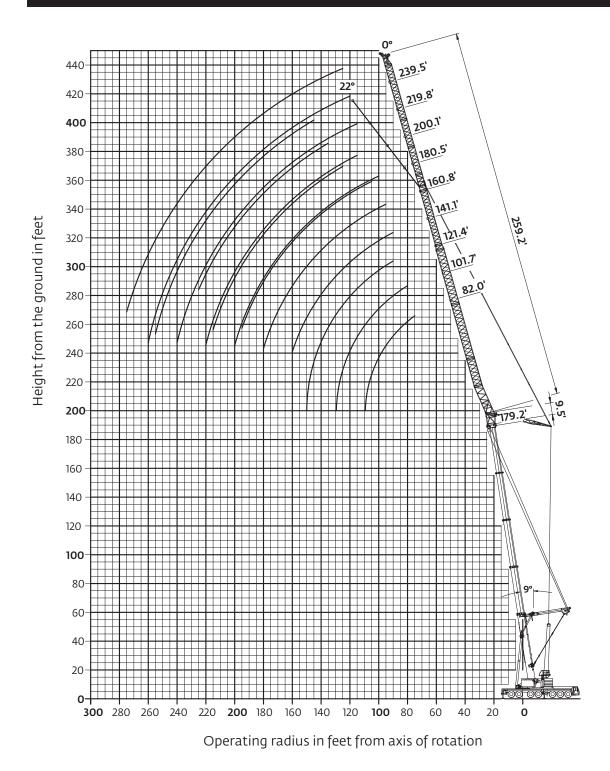
31 m - 49 m (102 ft - 161 ft) 120 000 kg 29 ft 2 in spread (264,500 lb) (100%)

		Pounds	s (thousands)		
Feet	101.7	121.4	141.1	160.8	
170					
175	16.0				
180	15.4				
185	14.8	13.2			
190	14.4	12.8			
195	13.8	12.4			
200		11.8	10.0		
205		11.4	9.6		
210			9.2		
215			8.8		
220			8.4	7.4	
225			8.0	7.0	
230				6.6	
235				6.4	
240				6.0	
245				5.8	



# Working range With MegaWingLift

#### 82 ft - 259 ft luffing jib - 81° main boom with MegaWingLift



Hook heights shown in the working diagram do not consider loaded boom deflection.



# Load charts With MegaWingLift









			<b>!</b>	(
81°	25 m - 79 m	160 000 kg	29 ft 2 in spread	3
5,3 m + 2,9 m 5.9 ft + 9.5 ft)	(82 ft - 259 ft)	(352,700 lb)	(100%)	

					Pound	ds (thousands)				
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
50 55	141.0	107.0								
60	136.0 129.0	107.0 107.0	85.0							
65	122.0	107.0	85.0							
70 75 80	115.0	107.0	85.0	69.0	50.0					
75 80	109.0 105.0	107.0 107.0	85.0 85.0	69.0 69.0	58.0 58.0	48.0				
85	100.0	107.0 105.0	85.0 85.0	69.0 69.0	58.0	48.0				
90	97.0	105.0	85.0	69.0	58 O	48.0	39.6			
95 100		102.0 98.0	85.0 85.0	69.0 69.0	58.0 58.0	48.0 48.0	39.6 39.6	33.0 33.0	26.2	
105		93.0	85.0	69.0	58.0	48.0	39.6	33.0	26.2	20.6
110		81.0	85.0	69.0	58.0	48.0	39.6	33.0	26.2	20.6
115 120			84.0	69.0 69.0	58.0 58.0	48.0	39.6 39.6	33.0 33.0	26.2 26.2	20.6
125			80.0 72.0	69.0	58.U 58.0	48.0 48.0	39.6 39.6	33.0	26.2	20.6
130			63.0	69.0 69.0 68.0 63.0	58.0 58.0 58.0 58.0	48.0	39.6 39.6 39.6 39.6	33.0	26.2	20.6 20.6
135				68.0	58.0	48.0	39.6	33.0 33.0	26.2 25.8 25.4 24.8	20.6 20.6
140 145				63.0 57.0	58.0 58.0	47.0 47.0	39.6 39.6	33.0 33.0	25.8	20.6
150				50.0	57.0	46.0	39.6	33.0	24.8	20.4 20.0
155					57.0 55.0 51.0	46.0	39.6	32.8 32.2	24.4 23.8	19.4 19.0
160 165					51.0	46.0	39.6	32.2	23.8	19.0
170					46.0 40.8	45.0 45.0	39.6 39.6	31.6 30.6	23.2 22.8	18.6 18.2
175					10.0	44.0	39.6	29.8	22.2	17.8
180						41.4	39.6	29.0	21.8	17.8 17.2
185 190						37.6 33.2	39.6 39.6	28.0 27.2	22.2 21.8 21.4 20.8	16.8 16.4
195						33.2	37.0	26.8	20.4	16.0
200							34.0	26.2	19.8	15.6
205 210							30.8	25.8 25.4	19.4	15.4
215								25.4	19.0 18.6	15.0 14.6
220								24.6	18.4	14.2
225									18.0	13.8
230 235									17.6 17.2	13.6 13.2
240									17.0	13.2
245									.,.0	12.8
250										12.4
255 260										12.2 12.0
200										12.0











3][					Pounds	thousands)	<u> </u>			
eet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
50	119.0									
65	113.0									
70	109.0	101.0								
75	106.0	98.0	81.0							
30	103.0	94.0	81.0	63.0						
35	102.0	91.0	81.0	63.0						
90	100.0	89.0	81.0	63.0	54.0					
95	98.0	87.0	79.0	63.0	54.0	44.0				
00	93.0	85.0	78.0	63.0	54.0	44.0	36.6	30.6		
05		84.0	76.0	63.0	54.0	44.0	36.6	30.6	24.4	
10		82.0	74.0	63.0	54.0	44.0	36.6	30.6	24.4	
15		78.0	72.0	63.0	54.0	44.0	36.6	30.6	24.4	19.0
20			71.0	63.0	54.0	44.0	36.6	30.6	24.4	19.0
25			70.0	63.0 62.0	54.0	44.0	36.6	30.6 30.6	24.4	19.0
30 35			68.0	62.0	54.0	44.0	36.6	30.6	24.4	19.0
			64.0	61.0	54.0	44.0	36.6	30.6	24.4	19.0
40 45				60.0	54.0	44.0	36.6	30.6	24.4	19.0
45 50				58.0	54.0	44.0	36.6	30.6 30.6	24.4 24.4	19.0
50 55				55.0	54.0	44.0	36.6	30.6	24.4	19.0
55 60				52.0	54.0 52.0	44.0 43.8	36.6 36.6	30.6 30.6	24.2	19.0
65					50.0	43.8	36.6	30.6	23.8	19.0
70					48.0	43.6 43.2	36.6	30.6 30.6	23.4 23.0	18.8 18.4
75					45.0	43.2 42.6	36.6	30.4	23.0	18.4
73 80					45.0	42.2	36.6	29.6	22.0	17.6
85						41.6	36.6	29.0	22.0	17.0
90						41.0	36.6 36.6	28.8 28.0	21.6 21.2	16.8
95						37.0	36.6	27.4	20.8	16.4
00						37.0	36.6	26.6	20.0	16.0
05							36.4	26.2	20.4 19.8	15.6
10							33.6	25.8	19.4	15.4
15							30.2	25.4	19.0	15.0
20								25.0	18.6	14.6
25								24.6	18.4	14.4
30									18.0	14.0
35									17.8	13.8
40									17.4	13.4
45 50									17.2	13.2
50										13.2 12.8
55										12.6
60										12.4

### With MegaWingLift









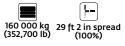


					Pou	nds (thousand:	s)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
70 75 80 85 90 95	98.0 95.0 93.0 91.0 89.0	85.0 83.0 81.0 79.0	74.0 73.0 72.0	60.0						
100 105 110 115 120 125	86.0 81.0	78.0 76.0 74.0 71.0 68.0 65.0	70.0 68.0 67.0 66.0 64.0 63.0	60.0 60.0 60.0 59.0 58.0 57.0	50.0 50.0 50.0 50.0 50.0 50.0	41.2 41.2 41.2 41.2 41.2 41.2	34.2 34.2 34.2 34.2	28.6 28.6 28.6 28.6	22.6 22.6	17.2
130 135 140 145		65.0	60.0 58.0 55.0 53.0	57.0 55.0 54.0 52.0 50.0 48.0	50.0 50.0 50.0 50.0 50.0 48.0	41.2 41.2 41.2 41.2 41.2 41.2	34.2 34.2 34.2 34.2 34.2 34.2	28.6 28.6 28.6 28.6 28.6 28.6	22.6 22.6 22.6 22.6 22.6 22.6 22.6	17.2 17.2 17.2 17.2 17.2
150 155 160 165 170 175				47.0 45.0 43.0	47.0 46.0 44.0 43.0 41.6	41.2 41.2 40.6 39.8 39.2	34.2 34.2 34.2 34.2 34.2	28.6 28.6 28.6 28.6 28.6	22.6 22.6 22.6 22.6 22.6	17.2 17.2 17.2 17.2 17.2
175 180 185 190 195 200					40.2 38.8	38.4 37.2 36.2 35.0 34.0	34.2 34.2 34.2 33.8 32.8 32.0	28.6 28.6 28.4 28.0 27.4 26.8	22.4 22.0 21.6 21.2 20.8 20.4	17.2 17.2 17.2 16.8 16.4 16.0
205 210 215 220 225							31.0 29.8 28.4 27.0	26.2 25.8 25.4 25.0 24.6	20.0 19.6 19.2 18.8 18.4	15.8 15.4 15.0 14.8 14.4
230 235 240 245 250 255								24.2 23.6	18.2 17.8 17.6 17.2 17.0	14.0 13.8 13.4 13.2 13.0 12.6
260									16.8	12.4









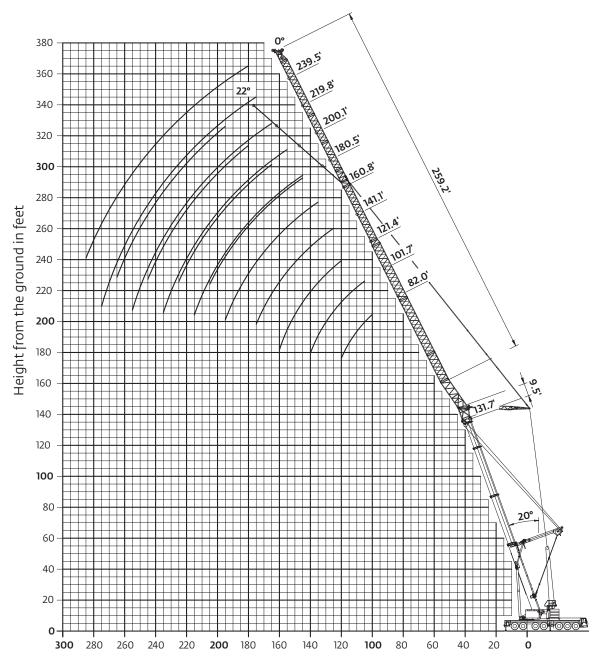


<b>3</b> ][					Po	unds (thousar	nds)			
eet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
75	85.0									
80 85	80.0	75.0								
55	76.0 73.0	71.0 68.0	64.0	55.0						
0	69.0	65.0	61.0	54.0	47.0					
00	66.0	62.0	59.0	53.0	47.0	38.0				
)5	63.0	60.0	56.0	51.0	47.0	38.0				
0	60.0	57.0	53.0	50.0	47.0	38.0				
5		54.0	51.0	48.0	46.0	38.0	31.6	25.2		
0.5		51.0	49.0	47.0	45.0	38.0	31.6	25.2	20.8	
25		49.0	47.0	45.0	45.0	38.0	31.6	25.2	20.8	15.8
0		46.0	45.0	43.0	43.4	38.0	31.6	25.2	20.8	15.8
5			43.2	41.4	42.0	38.0	31.6	25.2	20.8	15.8
.0 .5			41.4 39.6	39.8 38.2	40.6 39.2	37.4 36.4	31.6 31.6	25.2 25.2	20.8 20.8	15.8 15.8
0			37.8	36.6	38.0	35.4	31.0	25.2	20.8	15.8
5			37.0	35.2	36.8	34.6	31.6	25.2	20.8 20.8	15.8
0				33.8	35.4	33.4	31.6 31.6 31.2	25.2	20.8	15.8
5				33.0	34.2	31.8	30.6	25.2 25.2	20.8	15.8
'n					33.0	30.4	30.0	25.2	20.8	15.8
'5					31.8	29.0	28.8	25.2	20.8	15.8
0					30.6	27.4	27.6	25.0	20.8	15.8
5						26.6	26.4	24.4	20.8	15.8
0						25.6	25.2	23.8	20.8	15.8
5						24.6 23.8	24.0	23.0 22.4	20.6	15.8 15.8
)5						23.0	23.2 22.4	21.8	20.2 19.8	15.8
Õ							21.6	21.0	19.4	15.4
5							20.8	21.0 20.4	19.0	15.2
.0							20.0	19.8	18.6	14.8
25								19.0	18.2	14.6
0								18.4	17.6	14.2
5								17.8	17.0	14.0
0								17.0	16.6	13.6
.5 0									16.0	13.4
5									15.4	13.2 12.8
0									14.8 14.2	12.8
5									17.2	12.4
, n										12.0
										11.8



# Working range With MegaWingLift

#### 82 ft - 259 ft luffing jib - 70° main boom with MegaWingLift



Operating radius in feet from axis of rotation

 $Hook\ heights\ shown\ in\ the\ working\ diagram\ do\ not\ consider\ loaded\ boom\ deflection.$ 



### With MegaWingLift

70° 34,3 m + 2,9 m (115.9 ft + 9.5 ft)	25 m - 79 m (82 ft - 259 ft)	160 000 kg (352,700 lb)	29 ft 2 in spread (100%)	<b>Q</b> 360°
				- (1)

$\P$					Po	ounds (thousan	ds)			
eet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
)5	98.0									
00	93.0 88.0	91.0								
05	88.0	87.0								
00 05 10	84.0	83.0								
15	80.0	79.0	78.0							
20		75.0	74.0	71.0						
25		72.0	71.0	70.0	60.0					
30		68.0	68.0	67.0	60.0					
35		66.0	65.0	64.0	59.0					
10			62.0	61.0	59.0	48.0				
45 50			60.0	59.0	58.0	47.0	40.4			
50			58.0	57.0	56.0	47.0	40.4			
55			55.0	54.0	54.0	47.0	40.4			
50				52.0	52.0	47.0	40.4	33.4		
55				50.0	50.0	46.0	40.4	33.2	25.2	
70				49.0	48.0	46.0	40.4	32.8	24.8	
75					46.0	45.0	40.4	32.4	24.4	18.8
30 35 90					45.0 43.2	43.6	40.4	32.0	23.8 23.4	18.8
35					43.2	42.2	40.4	31.6	23.4	18.8
90					41.6	40.8	39.8	31.2	23.0	18.4
95						39.2	38.4	30.8	22.4	18.0
00 05						37.8	37.0 35.8	29.8 29.0	22.0	17.6 17.2
05						36.6	35.8	29.0	21.4	17.2
10 15							34.6 33.4	28.0 27.2	21.4 21.0 20.6	16.6 16.2
15							33.4	27.2	20.6	16.2
20 25 30							32.2 31.2	26.6	20.2 19.8	15.8
25							31.2	26.0	19.8	15.4
30								25.6	19.2	15.4 15.2 14.8
35								25.2	18.8	14.8
40 45								24.8 24.4	18.4	14.4
45								24.4	18.0	14.0
50									17.8	13.8
55									17.4	13.4
50 65 70									17.2 16.8	13.2 12.8
70									8.01	12.8
75										12.6
75 80										12.4



<b>3</b> ] [					Po	unds (thousand	Pounds (thousands)					
eet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2		
05	83.0											
10	79.0 75.0											
15	75.0	71.0										
20	72.0	69.0										
25	68.0	68.0	62.0									
30	65.0	65.0	61.0									
35		62.0	59.0	54.0								
40		59.0	58.0	53.0	51.0							
45		57.0	56.0	53.0	50.0							
50		55.0	54.0	53.0 53.0	49.0							
55		33.0	52.0	51.0	48.0	39.6						
60			50.0	49.0	47.0	39.6	37.0					
65 70 75			48.0	47.0	46.0	39.6	37.0					
70			46.0	45.0	44.0	30.6	37.0					
75			10.0	43.8	42.8	39.6 39.6	37.0	31.2				
80				42.2	41.2	39.6	36.6	31.2	24.0			
85				72.2	39.8	38.4	36.0	31.0	23.6			
90					38.4	37.0	36.2 35.6	30.8	23.4			
95					37.0	37.0	34.8	30.6	23.0	17.4		
00					35.6	37.0	33.4	30.4	22.0	17.4		
05					34.4	35.6 34.4 33.0	32.2	30.0	22.6 22.2	17.4		
10					34.4	32.0	31.2	29.8	21.8	17.4		
.10 .15 20						30.8	30.0	29.0	21.4	17.4		
20						29.8	29.0	38.2	21.4	16.6		
25						29.0	28.0	27.4	21.0 20.6	16.2		
30								26.4	20.6	15.8		
35							27.0 26.0	25.4	20.2 19.8	15.4		
40 23							25.2	24.6	19.4	15.4		
40 45							24.2	23.8	19.4			
45 E0							24.2	23.8	19.0	14.8		
50 55								23.0 22.2	18.6 18.2	14.6		
60								22.2	16.2	14.2		
60 65								21.4	18.0	14.0		
70									17.6	13.6		
70 .75									17.4	13.4		
75 80									17.0	13.2		
0U									16.8	12.8		
85										12.6		
90 .95										12.4 12.0		



With MegaWingLift









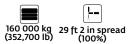


Pounds (thousands)										
eet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
15	72.0									
120 125	70.0	62.0								
25	67.0	60.0								
30	64.0	59.0								
35	61.0	58.0	52.0							
40		56.0	51.0	46.0						
45		55.0	50.0	46.0						
50		52.0	49.0	45.0						
55		50.0	48.0	44.0	42.2	25.2				
160			47.0	43.2	41.6	35.2				
165			45.0	42.2	40.8	35.2				
70 175			43.6	41.2	40.8	35.2 35.2	22.0			
75 80			42.0	39.8 38.4	39.6 39.0	35.2 35.0	32.0	28.4		
85				38.4 37.2	38.0	35.0 34.6	31.6 31.2	28.4		
90				35.8	36.6	34.0	30.6	27.8		
95				33.0	35.4	33.6	30.4	27.8	22.4	
.00					34.0	32.8	30.4	27.4	22.4	
205					32.8	31.6	29.6	26.6	22.0	16.8
10					31.6	30.4	29.2	26.4	21.6	16.8
215					30.6	29.4	28.4	26.0	21.4	16.8 16.8
20					30.0	28.4	28.4 27.4	25.6	21.0	16.8
25						27.4	26.4	25.0	20.8	16.4
30						27.1.	25.4	24.4	20.4	16.0
35							24.6	24.4 23.8	20.0	16.0 15.8
40							23.8	23.2	19.6	15.4
45							22.8	22.4	19.2	15.0
50							22.0	21.6	19.0	14.8
55							21.2	20.8	18.6	14.4
60								20.0	18.2	14.2
65								19.4	18.0	13.8
70									17.6	14.2 13.8 13.6 13.4
75									17.4	13.4
80									17.0	13.0
85									16.4	12.8
90										12.6
95										12.2
00										12.0











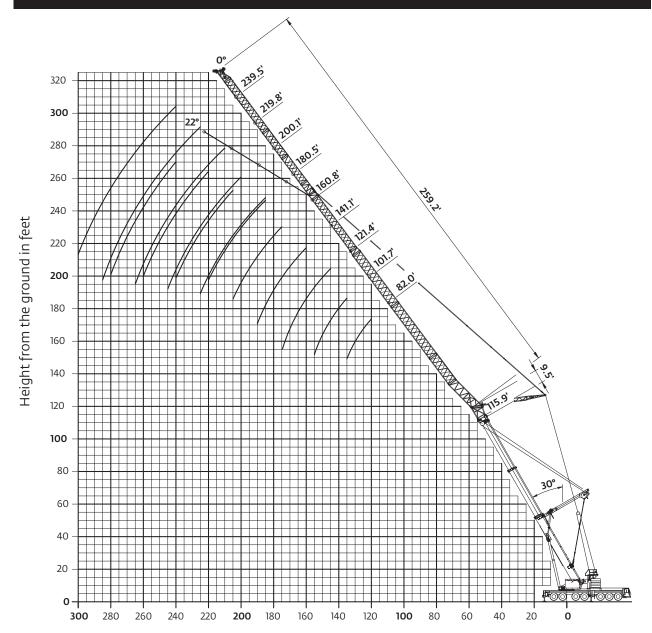


()	1-7									
					Po	unds (thousand	is)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
120	57.0									
125	53.0	49.0								
130 135	51.0	47.0								
135	49.0	46.0								
140 145	47.0	43.8	41.4							
145		42.2	39.8	37.2						
150		40.6	38.4	36.0						
155 160		39.0	37.0	34.6						
160		37.4	35.6	33.4	34.6					
165			34.4	32.2	33.6					
170			33.0	31.0	32.6	20.0				
175 180 185			31.8 30.6	29.6	31.4 29.6	28.0	ר ח			
100			30.6	28.0 26.2	29.0	26.6	25.2	22.0		
100				20.2	27.0	25.8	24.4	23.0		
190				25.0 24.0	20.0	25.0 24.2	23.8	22.4 21.8		
195 200				24.0	27.8 26.6 25.8 25.0	23.4	23.0	21.8	19.6	
205					25.0	23.4	22.4	20.6	19.2	
210					24.2 23.4	22.8 22.0	21.0	20.0	18.6	15.2
210 215					22.6	21.4	20.4	19.4	18.2	15.2
220					21.8	20.6	23.0 22.4 21.6 21.0 20.4 19.8	18.8	17.6	15.2 15.2
220 225					21.0	20.0	19.2	18.2	17.0	15.2
230 235						19.2	19.2 18.6	17.6	17.2 16.6 16.2 15.6	15.2 15.0
235						18.6	18.0	17.2	16.2	14.6
240						10.0	18.0 17.4	16.6	15.6	14.2
245							16.8	16.2	15.2	13.6
250 255							16.8 16.2	15.6	15.2 14.6	13.2
255							15.6	15.2	14.2	12.8
260							15.0	14.6	13.8	12.4
265								14.2	13.2	12.0
265 270 275								13.6	14.2 13.8 13.2 12.8	13.6 13.2 12.8 12.4 12.0 11.6 11.2
275								13.2	12.4	11.2
280									12.0	10.8
285 290 295									11.6 11.2	10.6 10.2
290									11.2	10.2
295									10.8	9.8
300 305										9.4
305										9.0
										8.6



# Working range With MegaWingLift

#### 82 ft - 259 ft luffing jib - 60° main boom with MegaWingLift



Operating radius in feet from axis of rotation

Hook heights shown in the working diagram do not consider loaded boom deflection.



### With MegaWingLift









<b>5</b> ][					Pound	ls (thousands)	·	·		
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
120	68.0									
125 130 135	65.0									
130	62.0	F0.0								
135	60.0	58.0								
140		56.0	F2 0							
145		54.0 52.0	53.0 51.0							
150 155		50.0	49.0							
160		30.0	47.0	45.0						
165			45.0	43.6						
170			43.4	42.0						
175			41.6	40.4	39.4					
180			11.0	38.8	37.8					
185				37.4	36.4	35.0				
190				36.0	35.0	33.6				
195					33.8	32.4				
200 205					32.6	32.4 31.2	30.2			
205					31.4	30.0	29.0			
210						29.0	28.0	27.2		
215						27.8	27.0	26.2 25.4		
220 225						26.8	26.0 25.0 24.2	25.4		
225						26.0	25.0	24.4	21.4	
230							24.2	23.6	20.8	
235							23.4	22.6	20.4	1F 4
240							22.4 21.6	21.8	20.0	15.4 15.4
245 250							21.6	22.6 21.8 21.0 20.4	19.6 19.2	15.4
255								19.6	18.8	14.6
260								19.0	18.4	14.2
265								18.2	17.8	14.0
265 270								10.2	17.2	13.6
275									16.6	13.4
280									16.0	13.0
285									15.4	12.8
90									.3	12.8 12.6
290 295										12.4
300										12.0











$\exists$					Pour	ds (thousands)	)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
140	52.0									
145	50.0									
150	48.0									
155 160	46.0	44.0								
160		42.6								
165		40.8 39.2	39.6							
170 175		39.2	38.2							
175		37.6	36.6	35.0						
180 185 190			35.2	33.6 32.4						
185			34.0	32.4						
190			32.6	31.2						
195			31.4	30.0 28.8	29.0 27.8					
200				28.8	27.8					
205				27.8	26.8 25.8	25.6				
210					25.8	24.8				
215					24.8	23.8				
205 210 215 220 225					24.0	22.8	22.0			
225					23.0	22.0 21.2	21.0 20.2			
230 235 240						21.2	20.2	19.6		
235						20.4 19.6	19.6 18.8	18.8		
240						19.6	18.8	18.2	17.2	
245 250 255						18.8	18.0 17.4	17.4	16.6	
250							17.4	16.8	15.8 15.2	14.4
255							16.6	16.2	15.2	14.2
260							16.0	15.4	14.6	13.6
265							15.4	14.8	14.0 13.4	13.0
2/0								14.2	13.4	12.4
2/5								13.8	12.8 12.4	11.8
260 265 270 275 280 285								13.2	12.4	11.4
285 200								12.6	11.8	10.8
290									11.4	10.4
290 295 300 305									10.8	9.8
300									10.4	9.4 9.0
310										9.0
310 315 320										8.6
315										8.0 7.6

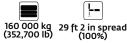


### With MegaWingLift

49.8 m + 2.9 m (82 ft - 259 ft)









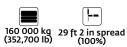
	Q
l	360°

					P	ounds (thousan	nds)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
145	47.0									
150	45.0									
155 160	43.6									
160	41.8	40.4 38.8								
170		38.8 37.2								
170 175		35.6	34.6							
180		34.2	33.2 32.0							
185			32.0	30.2						
190			30.8	29.2 28.0						
195 200			29.6	28.0	26.4					
205			28.4	27.0 26.0	26.4 25.4					
210				20.0 25.0	23.4	22.8				
210 215				25.0 24.0	24.4 23.6	22.0				
220 225				23.0	22.6 21.8	21.2 20.2				
225					21.8	20.2	19.2			
230 235					21.0	19.6	18.6			
235					20.2 19.4	18.8	17.8	16.2		
240 245					19.4	18.0 17.4	18.6 17.8 17.0 16.4	16.2 15.6		
250						16.6	15.8	15.0	13.8	
250 255						16.0	15.8 15.2	14.4	13.8 13.2	
260 265							14.6 14.0	13.8 13.2	12.6 12.2	
265							14.0	13.2	12.2	10.6
270 275							13.4 12.8	12.6 12.2	11.6 11.0	10.6
2/5							12.8	12.2	10.6	9.6
280 285							12.2	11.6 11.0	10.0	9.0
290								10.6	9.6	8.6
295								10.2	9.6 9.2	8.2
300									8.8 8.2	10.6 10.0 9.6 9.0 8.6 8.2 7.8 7.2 6.8 6.4 6.2 5.8
305 310									8.2	7.2
310									7.8	0.8 6.4
320										6.2
325										5.8
325 330										5.4







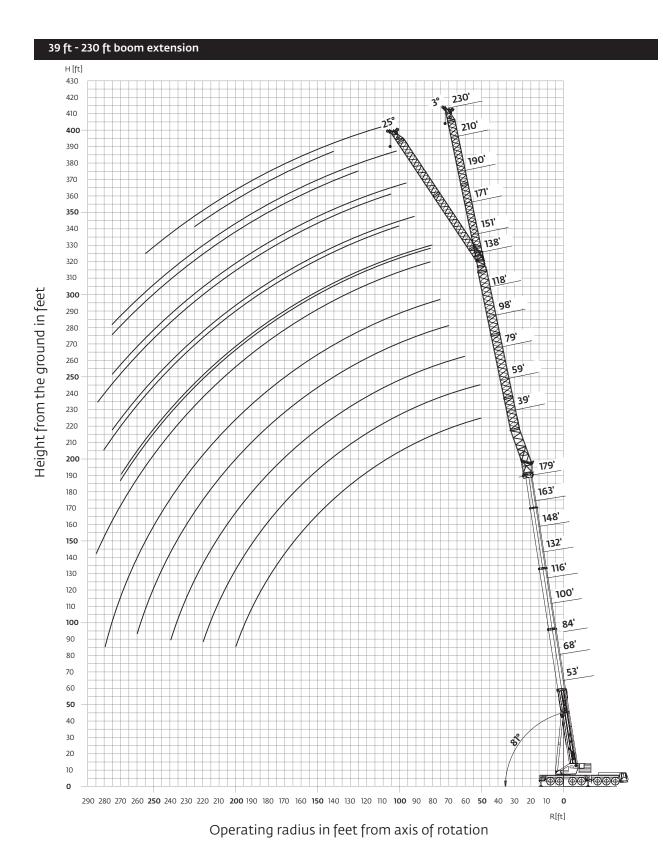




360°				
	Pounds (thousands	)		
160.8	180.5	200.1	219.8	3

					P	ounds (thousa	nds)			
Feet	82.0	101.7	121.4	141.1	160.8	180.5	200.1	219.8	239.5	259.2
160	39.6									
165 170 175 180 185 190 195	38.0 36.4									
175	34.8	33.4								
180	54.0	33.4 32.2								
185		31.0	29.0							
190		31.0 29.8	29.0 27.8							
195			25.8 24.6	23.2						
200			24.6	22.4						
205			23.6	21.6	22.6					
210				21.0	22.6					
215				20.2 19.4	21.8 20.8					
220 225 230 235				18.8	20.6 20.0	18.6				
230				10.0	20.0 19.4	17.8				
235					18.6	17.0				
240 245					18.6 17.8	16.4	15.4			
245					17.2	15.8 15.0	14.6			
250 255						15.0	14.0	13.2		
255						14.4	13.4	12.6	10.0	
260 265						13.8	12.8	12.0 11.6	10.8	
205						13.2	12.4	11.0	10.2	7 Q
275							11.0	10.6	9.6	7.8
270 275 280 285 290							11.8 11.2 10.8	11.0 10.6 10.0 9.6 9.2	9.8 9.2 8.8 8.4	7.6
285							10.2	9.6	8.4	7.2
290								9.2	8.0	6.8
295 300								8.6	7.6	6.4
300								8.2	7.0	6.0
305								7.8	6.6	7.8 7.8 7.6 7.2 6.8 6.4 6.0 5.6 5.2 4.8 4.6 4.2 3.8 3.6 3.2
310 315 320 325									6.2	5.2
320									6.0 5.6	4.0
325									3.0	4.0
330										3.8
335										3.6
										3.2







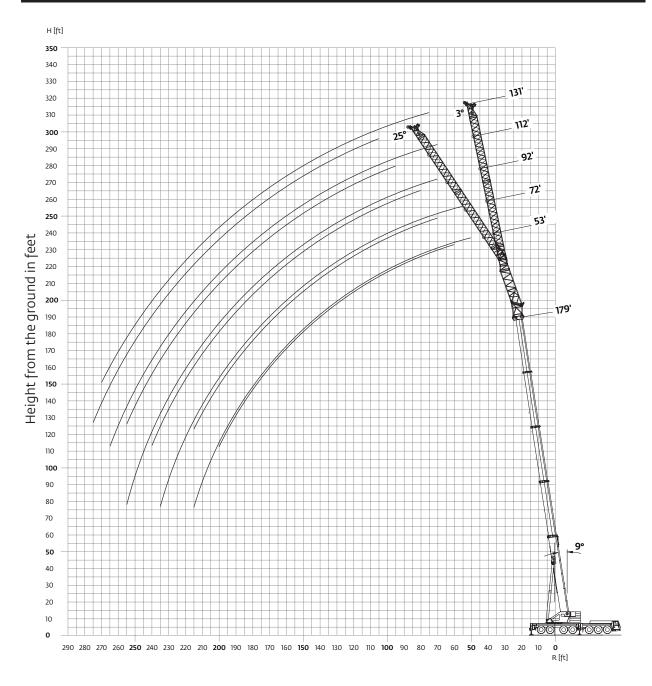
49,8 m (163.4 ft)		70 m 230 ft)	120 000 kg (264,500 lb)	29 ft 2 in :		<b>Q</b> 360°										
				,,,,,		Pour	nds (thousa	ınds)								
						~	162.4									
Feet Feet	39.4	59.1	78.7	98.4	118.1	137.8	163.4	0.9	170.	6	190	1 3	210	0.0	229	9.7
1 000	3°	3°	3°	3°	3°	3°	3°	25°	3°	.0 25°	3°	25°	3°	25°	3°	25°
45	105.0					-										
50	100.0	87.0														
55	96.0	83.0	66.0													
60	90.0	80.0	63.0	51.0												
65	85.0	77.0	61.0	49.0												
70	79.0	72.0	58.0	47.0	41.6											
75	74.0	68.0	56.0	45.0	40.0	33.8	28.2	25.6	22.4							
80	70.0	64.0	53.0	43.6	38.6	32.6	27.0	25.6	23.4							
85 90	66.0 62.0	61.0 57.0	51.0 50.0	42.0 40.4	37.2 35.8	31.4 29.8	26.0 24.8	24.4	22.6 21.6		19.0					
95	58.0	54.0	48.0	39.0	34.4	28.4	23.8	22.6		18.6	18.2		15.4		13.0	
100	54.0	51.0	46.0	37.8	33.4	26.8	23.0	21.8		17.8	17.4	15.0	14.8		12.4	
105	52.0	49.0	45.0	36.6	32.2	25.8	22.0	21.0		17.2	16.8	14.4	14.2		12.0	
110	49.0	46.0	43.0	35.2	31.2	25.0	21.2	20.2		16.4	16.0	13.8	13.6		11.4	
115	46.0	44.0	41.4	34.0	30.0	24.2	20.4	19.4	17.6	15.8	15.4	13.2	13.2		11.0	
120	43.6	41.8	39.6	32.8	28.8	23.4	19.6	18.8		15.2	14.8	12.8	12.6	10.4	10.6	
125	41.0	39.8	37.8	31.6	27.6	22.4	18.8	18.0		14.6	14.2	12.2	12.0	10.0	10.2	
130	38.6	38.0	36.0	30.4	26.4	21.8	18.2	17.4		14.2	13.6	11.8	11.6	9.6	9.6	
135	36.6	36.0	34.2	29.2	25.2	21.2	17.6	16.8		13.6	13.0	11.2	11.0	9.0	9.2	7.4
140	34.6	34.2	32.6	28.0	24.2	20.4	17.0	16.2		13.2 12.6	12.4	10.8	10.6	8.6	8.8	7.0
145 150	32.6 30.6	32.4 30.6	30.8 29.0	26.8 25.8	23.6 23.0	19.8 19.2	16.4 15.8	15.6 15.2		12.0	12.0 11.6	10.4	10.2 9.6	8.4	8.4 8.2	6.6 6.4
155	28.6	29.0	27.4	25.0	22.4	18.6	15.2	14.6		11.8	11.0	9.6	9.0	7.6	7.8	6.0
160	26.6	27.4	25.6	24.0	21.6	18.2	14.8	14.0		11.4	10.6	9.2	8.8	7.2	7.4	5.8
165	25.0	26.0	24.4	23.2	21.0	17.6	14.2	13.6		11.0	10.2	8.8	8.4	7.0	7.0	5.4
170	23.0	24.4	23.4	22.2	20.4	17.2	13.8	13.2		10.6	9.8	8.6	8.0	6.6	6.6	5.2
175	21.2	22.8	22.4	21.2	19.8	16.6	13.4	12.8	11.2	10.2	9.4	8.2	7.8	6.4	6.4	4.8
180	19.4	21.2	21.4	20.4	19.2	16.2	12.8	12.4		9.8	9.0	8.0	7.4	6.0	6.0	4.6
185	17.8	19.6	20.2	19.6	18.4	15.8	12.4	12.0		9.6	8.6	7.6	7.0	5.8	5.6	4.4
190	16.4	18.0	19.2	18.6	17.8	15.4	12.0	11.6		9.2	8.4	7.2	6.8	5.6	5.4	4.0
195		16.4	18.2	17.8	17.2	15.0	11.6	11.2		8.8	8.0	7.0	6.4	5.2	5.2	3.8
200 205		15.0	16.8 15.4	17.0 16.0	16.6 15.8	14.6 14.2	11.4 11.0	11.0 10.6		8.6	7.8	6.8	6.0	5.0 4.8	4.8	3.6
210		13.8	14.2	15.2	15.0	13.8	10.6	10.0		8.0	7.4 7.2	6.2	5.8 5.6	4.6	4.6 4.2	3.4
215			12.8	13.8	14.4	13.4	10.0	10.0		7.8	6.8	6.0	5.4	4.4	4.0	3.0
220			11.8	12.6	13.6	12.8	10.0	9.6		7.4	6.6	5.8	5.0	4.2	3.8	2.8
225			10.6	11.6	12.4	12.2	9.6	9.2	7.8	7.2	6.2	5.6	4.8	4.0	3.6	2.6
230				10.4	11.4	11.6	9.0	8.8		7.0	6.0	5.4	4.6	3.8	3.4	
235				9.4	10.4	10.6	8.6	8.4		6.8	5.8	5.2	4.2	3.6	3.2	
240				8.4	9.4	9.6	7.6	8.0		6.4	5.6	5.0	4.0	3.4	3.0	
245					8.4	8.6	6.8	7.2		6.2	5.4	4.8	3.8	3.2	2.8	
250					7.4	7.8	5.8	6.2		6.0	5.2	4.6	3.6	3.0		
255 260					6.6 5.8	7.0 6.0	5.0 4.0	5.2 4.4		5.8 5.4	4.8	4.4	3.4	2.8		
265					٥.د	5.2	3.2	3.6		4.8	4.6	3.8	3.4	2.6		
270						4.4	2.6	2.8		4.0	3.8	3.6	3.0	2.0		
275						3.8	2.0	0		3.2	3.0	3.4	2.8			
280						3.0				2.4	2.2	3.2	2.4			
285												2.6				



Feet	54,6 m (179.2 ft)	12 m - (39 ft - 2		120 000 (264,500		ft 2 in spro (100%)	ead	<b>Q</b> 360°									
Feet   19.4   59.1   78.7   78.4   118.1   137.8   150.9   170.6   190.3   25   3   25   3   25   25   3   25   25								Pounds (th	ousands	)							
## A5   ## A5	Feet																
55 83.0 75.0 60 80.0 72.0 60.0 665 76.0 680 58.0 77.0 72.0 65.0 56.0 47.0 75.6 60 68.0 61.0 54.0 46.0 38.6 80 65.0 58.0 47.0 75.6 60.0 68.0 65.0 58.0 52.0 44.0 37.4 31.4 25.8 25.0 23.8 85.6 10. 55.0 47.0 41.6 35.0 28.2 29.8 25.0 23.8 90 57.0 52.0 47.0 41.6 35.0 28.2 24.2 22.8 20.8 95.5 4.0 50.0 45.0 40.2 34.0 27.0 23.2 22.0 20.0 17. 17.2 100 51.0 47.0 43.4 38.8 32.8 22.8 22.4 21.2 19.4 17.4 16.6 18.0 13.4 11.2 110 46.0 43.0 39.8 35.8 30.2 24.6 20.8 19.8 18.0 16.2 15.6 13.4 13.0 10.8 11.2 110 46.0 43.0 39.8 35.8 30.2 24.6 22.4 12.2 19.8 18.0 16.2 15.6 13.4 13.0 10.4 12.1 12.1 12.1 12.1 12.1 13.8 13.4 13.0 12.4 10.4 12.0 12.1 12.1 13.8 13.4 13.0 13.4 13.0 12.4 10.4 12.0 13.8 35.8 33.0 22.8 22.6 22.6 18.8 18.0 16.2 15.0 13.4 12.4 10.4 12.0 12.5 13.8 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 13.0 12.4 10.4 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	Feet																
ST																	
60 80.0 72.0 60.0 65.0 58.0 47.0 72.0 66.0 58.0 47.0 72.0 65.0 58.0 19.8 18.6 16.6 16.6 16.6 16.6 16.6 16.6 16																	
Fig. 10				60.0													
72.0																	
80 65.0 58.0 52.0 44.0 37.4 31.4 25.8 24.6 99.0 57.0 52.0 44.0 43.0 36.2 29.8 25.0 23.8 99.0 57.0 52.0 47.0 41.6 35.0 28.2 24.2 22.8 20.8 99.5 54.0 50.0 45.0 40.2 34.0 27.0 23.2 22.0 20.0 17.2 100 51.0 47.0 43.4 38.8 32.8 26.2 22.4 21.2 19.4 17.4 16.6 13.8 11.6 1105 49.0 45.0 41.6 37.4 31.4 25.4 21.6 20.6 18.6 18.6 16.8 16.0 14.0 13.4 11.2 110 44.0 41.0 38.0 39.8 35.8 30.2 24.6 20.8 19.8 18.0 16.0 14.0 13.4 11.0 10.8 115 44.0 41.0 38.0 34.6 28.8 24.0 20.2 19.2 19.2 17.2 15.6 15.0 14.4 12.4 12.0 10.0 12.5 39.8 37.2 35.0 31.8 26.6 22.6 18.8 18.0 16.0 14.6 14.0 12.0 11.6 9.8 9.6 13.0 39.8 37.2 29.2 25.0 21.2 17.6 16.8 18.0 16.0 14.0 13.4 11.0 11.2 9.4 9.2 135 35.8 33.6 32.2 29.2 25.0 21.2 17.6 16.8 15.0 13.0 12.4 10.4 12.0 11.6 9.8 9.0 8.8 14.0 34.0 31.8 30.6 27.8 24.2 20.6 16.4 15.6 14.0 12.0 11.6 9.8 9.0 8.8 140 34.0 31.8 30.6 25.2 22.6 19.4 18.6 14.0 12.0 12.4 10.4 12.0 10.0 12.5 13.4 13.0 12.4 12.0 12.0 12.5 13.5 35.8 35.8 32.2 29.2 25.0 21.2 17.6 16.8 15.0 13.0 12.4 10.8 9.0 8.8 140 34.0 31.8 30.6 25.2 22.6 19.4 16.0 15.0 13.0 12.4 10.8 9.0 8.8 140 34.0 31.8 30.6 25.2 22.6 19.4 16.0 15.2 14.4 13.0 12.0 10.0 10.0 8.2 8.2 64.1 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12					47.0												
SS																	
90																	
95										20.8							
100												17 2					
105											17.4			13.8		11.6	
115													14.0				
120																	
125																	
130															0.0		
135																	
140																	
150			31.8	30.6	27.8	24.2		17.0		14.4	13.0			10.4		8.4	
155   28.8   26.4   26.6   23.8   21.8   18.8   15.4   14.8   13.0   11.8   11.0   9.6   9.2   7.6   7.4   6.0     160   27.2   25.0   25.2   22.6   21.0   18.2   14.8   14.2   12.4   11.4   10.6   9.2   8.8   7.2   7.2   7.5   6.6     165   25.6   24.0   23.8   21.6   20.2   17.6   14.4   13.8   12.0   11.0   10.2   9.0   8.4   7.0   6.8   5.4     170   24.0   22.8   22.4   20.8   19.4   17.2   13.8   13.4   11.6   10.6   9.8   8.6   8.2   6.6   6.6   6.5   0.0     175   22.2   21.8   21.2   20.0   18.6   16.6   13.4   13.0   11.2   10.2   9.6   8.2   7.8   6.4   6.2   4.8     180   21.0   20.8   20.4   19.2   17.8   16.0   13.0   12.6   10.8   10.0   9.2   8.0   7.4   6.0   6.0   4.6     185   19.2   19.6   19.4   18.4   17.2   15.4   12.6   12.2   10.4   9.6   8.8   7.6   7.2   5.8   5.8   4.4     190   17.6   18.6   18.6   17.4   16.6   14.8   12.0   11.8   10.2   9.4   8.4   7.4   6.8   5.6   5.4   4.2     195   16.2   17.2   17.6   16.6   15.8   14.4   11.6   11.4   9.8   9.0   8.2   7.2   6.6   5.4   5.2   3.8     200   14.8   15.8   16.8   16.0   15.2   13.8   11.2   11.0   9.4   8.8   7.8   6.8   6.2   5.2   5.0   3.6     205   14.4   15.8   15.2   14.6   13.2   10.6   10.6   9.2   8.8   7.8   6.8   6.2   5.2   5.0   3.6     210   13.2   14.6   14.6   13.8   12.8   10.2   10.2   8.8   8.2   7.4   6.4   5.6   4.4   4.2   3.0     220   10.8   12.2   13.0   12.8   11.6   9.2   9.8   9.8   8.4   7.8   7.0   6.2   5.4   4.4   4.2   3.0     220   10.8   12.2   13.0   12.8   11.6   9.2   9.2   8.7   6.6   6.0   5.8   5.0   4.0   3.6   2.8     230   10.0   10.8   11.6   10.6   8.4   8.4   7.4   7.0   6.2   5.4   4.8   4.0   3.2     240   8.2   8.8   9.6   9.6   7.4   7.6   6.6   6.6   6.0   5.8   5.0   4.0   3.6   2.8     230   10.0   10.8   11.6   10.6   10.5   8.4   8.4   7.4   7.0   6.2   5.4   4.8   4.0   3.2   2.8     245   7.8   6.0   6.0   6.2   4.2   4.4   4.8   5.2   4.4   4.4   4.2   3.0   2.6     255   7.0   7.8   7.8   7.8   5.8   6.2   5.8   5.8   5.0   4.6   3.6   3.0   2.4     245   7.8   7.0																	
160       27.2       25.0       25.2       22.6       21.0       18.2       14.8       14.2       12.4       11.4       10.6       9.2       8.8       7.2       7.2       5.6         165       25.6       24.0       23.8       21.6       20.2       17.6       14.4       13.8       11.0       10.0       0.2       9.0       8.4       7.0       6.8       5.4         170       24.0       22.8       22.4       20.8       19.4       17.2       13.8       11.6       10.6       9.8       8.6       8.2       2.6       6.6       6.5       5.0         175       22.2       21.8       21.2       20.0       18.6       16.6       13.4       13.0       11.2       10.2       9.6       8.2       7.8       6.4       6.2       4.8         180       21.0       20.8       20.4       19.2       17.8       16.0       13.0       12.6       10.8       10.0       9.2       8.0       7.4       6.0       6.0       4.6         185       19.2       19.6       18.6       18.6       17.4       16.6       14.8       12.0       11.8       10.2       9.4       8.4 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																	
165         25.6         24.0         23.8         21.6         20.2         17.6         14.4         13.8         12.0         11.0         10.2         9.0         8.4         7.0         6.8         5.4           170         24.0         22.8         22.4         20.8         19.4         17.2         13.8         13.4         11.6         10.6         9.8         8.6         8.2         6.6         6.6         5.0           180         21.0         20.8         20.4         19.2         17.8         16.0         13.0         12.6         10.8         10.0         9.2         8.0         7.4         6.0         6.0         4.6           185         19.2         19.6         19.4         18.4         17.2         15.4         12.6         12.2         10.4         9.6         8.8         7.6         7.2         5.8         5.8         4.4           190         17.6         18.6         18.6         16.0         15.8         14.4         11.6         11.4         9.8         9.0         8.2         7.2         6.6         5.4         5.2         3.8           200         14.8         15.8         16.2         17.2 <td></td>																	
170																	
180         21.0         20.8         20.4         19.2         17.8         16.0         13.0         12.6         10.8         10.0         9.2         8.0         7.4         6.0         6.0         4.6           185         19.2         19.6         19.4         18.4         17.2         15.4         12.6         12.2         10.4         9.6         8.8         7.6         7.2         5.8         5.8         4.4           190         17.6         18.6         18.6         17.4         16.6         14.8         12.0         11.8         10.2         9.4         8.4         7.4         6.8         5.6         5.4         4.2           195         16.2         17.2         17.6         16.6         15.8         14.4         11.6         11.4         9.8         9.0         8.2         7.2         6.6         5.4         5.2         3.8           200         14.8         15.8         16.6         15.2         13.8         11.2         11.0         9.4         8.8         7.8         6.8         6.2         5.2         5.0         3.6           205         14.4         14.5         13.2         10.6         10.2	170	24.0	22.8	22.4									8.6				
185         19.2         19.6         19.4         18.4         17.2         15.4         12.6         12.2         10.4         9.6         8.8         7.6         7.2         5.8         5.8         4.4           190         17.6         18.6         18.6         17.4         16.6         14.8         12.0         11.8         10.2         9.4         8.4         7.4         6.6         5.6         5.4         4.2           195         16.2         17.2         17.6         16.6         15.8         14.4         11.6         11.4         9.8         9.0         8.2         7.2         6.6         5.4         4.2           200         14.8         15.8         16.8         16.0         15.2         13.8         11.2         11.0         9.4         8.8         7.8         6.8         6.2         5.2         5.0         3.6           205         14.4         15.8         15.2         14.6         13.2         10.6         10.6         9.2         8.4         7.6         6.6         6.0         4.4         3.2           215         12.0         13.4         13.8         13.2         12.2         9.8         8.4																	
190       17.6       18.6       18.6       17.4       16.6       14.8       12.0       11.8       10.2       9.4       8.4       7.4       6.8       5.6       5.4       4.2         195       16.2       17.2       17.6       16.6       15.8       14.4       11.6       11.4       9.8       9.0       8.2       7.2       6.6       5.4       5.2       3.8         200       14.8       15.8       16.0       15.2       13.8       11.2       11.0       9.4       8.8       7.8       6.8       6.2       5.2       5.0       3.6         205       14.4       15.8       15.2       14.6       13.2       10.6       10.6       9.2       8.4       7.6       6.6       6.0       4.8       4.6       3.4         210       13.2       14.6       14.6       13.8       12.2       10.2       8.8       8.2       7.4       6.4       5.6       4.6       4.4       3.2         215       12.0       13.4       13.8       13.2       12.2       9.8       8.8       4.7.8       7.0       6.2       5.4       4.4       4.2       3.0         220       10.8																	
195         16.2         17.2         17.6         16.6         15.8         14.4         11.6         11.4         9.8         9.0         8.2         7.2         6.6         5.4         5.2         3.8           200         14.8         15.8         16.8         16.0         15.2         13.8         11.2         11.0         9.4         8.8         7.8         6.8         6.2         5.2         5.0         3.6           205         14.4         15.8         15.2         14.6         13.2         10.6         10.6         9.2         8.4         7.6         6.6         6.0         4.8         4.6         3.4           210         13.2         14.6         14.6         13.8         13.2         10.2         10.2         8.8         8.2         7.4         6.4         5.6         4.6         4.4         3.2           215         12.0         13.4         13.8         13.2         12.2         9.8         9.8         8.4         7.8         7.0         6.2         5.4         4.4         4.2         3.0           220         10.8         12.2         13.0         12.8         11.6         9.2         9.2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																	
200         14.8         15.8         16.8         16.0         15.2         13.8         11.2         11.0         9.4         8.8         7.8         6.8         6.2         5.2         5.0         3.6           205         14.4         15.8         15.2         14.6         13.2         10.6         10.6         9.2         8.4         7.6         6.6         6.0         4.8         4.6         3.4           210         13.2         14.6         14.6         13.8         12.8         10.2         8.8         8.2         7.4         6.4         5.6         4.6         4.4         3.2           215         12.0         13.4         13.8         13.2         12.2         9.8         9.8         8.4         7.0         6.2         5.4         4.4         4.2         3.0           220         10.8         12.2         13.0         12.8         11.6         9.2         9.2         8.2         7.6         6.8         6.0         5.2         4.2         4.0         2.8           225         11.2         12.0         12.2         11.2         8.8         8.8         7.8         7.4         6.6         6.5         5.0																	
210       13.2       14.6       14.6       13.8       12.8       10.2       10.2       8.8       8.2       7.4       6.4       5.6       4.6       4.4       3.2         215       12.0       13.4       13.8       13.2       12.2       9.8       9.8       8.4       7.8       7.0       6.2       5.4       4.4       4.2       3.0         220       10.8       12.2       13.0       12.8       11.6       9.2       9.2       8.2       7.6       6.8       6.0       5.2       4.2       4.0       2.8         225       11.2       12.0       12.2       11.2       8.8       8.8       7.8       7.4       6.6       5.8       5.0       4.0       3.6       2.8         230       10.0       10.8       11.6       10.6       8.4       8.4       7.4       7.0       6.2       5.4       4.8       3.8       3.4         235       9.0       9.8       10.6       10.2       7.8       8.0       7.0       6.8       6.0       5.2       4.6       3.6       3.2         240       8.2       8.8       9.6       9.6       7.4       7.6       6.6																	
215         12.0         13.4         13.8         13.2         12.2         9.8         9.8         8.4         7.8         7.0         6.2         5.4         4.4         4.2         3.0           220         10.8         12.2         13.0         12.8         11.6         9.2         9.2         8.2         7.6         6.8         6.0         5.2         4.2         4.0         2.8           225         11.2         12.0         12.2         11.2         8.8         8.8         7.4         7.6         6.6         5.8         5.0         4.0         3.6         2.8           230         10.0         10.8         11.6         10.6         8.4         8.4         7.4         7.0         6.2         5.4         4.8         3.8         3.4           235         9.0         9.8         10.6         10.2         7.8         8.0         7.0         6.8         6.0         5.2         4.6         3.6         3.2           240         8.2         8.8         9.6         9.6         7.4         7.6         6.6         6.4         5.6         5.0         4.2         3.4         3.0           245 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																	
220       10.8       12.2       13.0       12.8       11.6       9.2       9.2       8.2       7.6       6.8       6.0       5.2       4.2       4.0       2.8         225       11.2       12.0       12.2       11.2       8.8       8.8       7.8       7.4       6.6       5.8       5.0       4.0       3.6       2.8         230       10.0       10.8       11.6       10.6       8.4       8.4       7.4       7.0       6.2       5.4       4.8       3.8       3.4         235       9.0       9.8       10.6       10.2       7.8       8.0       7.0       6.8       6.0       5.2       4.6       3.6       3.2         240       8.2       8.8       9.6       9.6       7.4       7.6       6.6       6.4       5.6       5.0       4.2       3.4       3.0         245       7.8       8.6       8.8       6.8       7.2       6.2       6.2       5.4       4.8       4.0       3.2       2.8         250       7.0       7.8       7.8       7.8       5.8       6.2       5.8       5.0       4.6       3.8       3.2       2.6      <																	
225         11.2         12.0         12.2         11.2         8.8         8.8         7.8         7.4         6.6         5.8         5.0         4.0         3.6         2.8           230         10.0         10.8         11.6         10.6         8.4         8.4         7.4         7.0         6.2         5.4         4.8         3.8         3.4           235         9.0         9.8         10.6         10.2         7.8         8.0         7.0         6.8         6.0         5.2         4.6         3.6         3.2           240         8.2         8.8         9.6         9.6         7.4         7.6         6.6         6.4         5.6         5.0         4.2         3.4         3.0           245         7.8         8.6         8.8         6.8         7.2         6.2         6.2         5.4         4.8         4.0         3.2         2.8           250         7.0         7.8         7.8         5.8         6.2         5.8         5.8         5.0         4.6         3.8         3.2         2.6           255         6.0         6.8         7.0         5.0         5.4         5.4         5.6																	
230     10.0     10.8     11.6     10.6     8.4     8.4     7.4     7.0     6.2     5.4     4.8     3.8     3.4       235     9.0     9.8     10.6     10.2     7.8     8.0     7.0     6.8     6.0     5.2     4.6     3.6     3.2       240     8.2     8.8     9.6     9.6     7.4     7.6     6.6     6.4     5.6     5.0     4.2     3.4     3.0       245     7.8     8.6     8.8     6.8     7.2     6.2     6.2     5.4     4.8     4.0     3.2     2.8       250     7.0     7.8     7.8     5.8     6.2     5.8     5.8     5.0     4.6     3.8     3.2     2.6       255     6.0     6.8     7.0     5.0     5.4     4.8     4.6     3.6     3.0     2.4       260     5.2     6.0     6.2     4.2     4.4     4.8     5.2     4.4     4.4     3.2     2.8       265     5.2     5.4     3.4     3.6     4.0     4.8     4.0     4.2     3.0     2.6       270     4.4     4.6     2.6     2.8     3.2     4.0     3.6     3.8     2.8 <td< td=""><td></td><td></td><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			10.0														
240     8.2     8.8     9.6     9.6     7.4     7.6     6.6     6.4     5.6     5.0     4.2     3.4     3.0       245     7.8     8.6     8.8     6.8     7.2     6.2     6.2     5.4     4.8     4.0     3.2     2.8       250     7.0     7.8     7.8     7.8     5.8     6.2     5.8     5.0     4.6     3.8     3.2     2.6       255     6.0     6.8     7.0     5.0     5.4     5.4     5.6     4.8     4.6     3.6     3.0     2.4       260     5.2     6.0     6.2     4.2     4.4     4.8     5.2     4.4     4.4     3.2     2.8       265     5.2     5.4     3.4     3.6     4.0     4.8     4.0     4.2     3.0     2.6       270     4.4     4.6     2.6     2.8     3.2     4.0     3.6     3.8     2.8     2.6       275     3.8     3.8     3.8     2.4     3.2     2.8     3.6     2.6     2.4       280     3.0     3.2     2.4     3.2     2.4     3.2     2.8     2.6	230				10.8											3.4	
245     7.8     8.6     8.8     6.8     7.2     6.2     6.2     5.4     4.8     4.0     3.2     2.8       250     7.0     7.8     7.8     5.8     6.2     5.8     5.8     5.0     4.6     3.8     3.2     2.6       255     6.0     6.8     7.0     5.0     5.4     5.4     5.6     4.8     4.6     3.6     3.0     2.4       260     5.2     6.0     6.2     4.2     4.4     4.8     5.2     4.4     4.4     3.2     2.8       265     5.2     5.4     3.4     3.6     4.0     4.8     4.0     4.2     3.0     2.6       270     4.4     4.6     2.6     2.8     3.2     4.0     3.6     3.8     2.8     2.6       275     3.8     3.8     3.8     2.4     3.2     2.8     2.6     2.4       280     3.0     3.2     2.4     3.2     2.4     3.2     2.8     2.6																	
250     7.0     7.8     7.8     5.8     6.2     5.8     5.0     4.6     3.8     3.2     2.6       255     6.0     6.8     7.0     5.0     5.4     5.6     4.8     4.6     3.6     3.0     2.4       260     5.2     6.0     6.2     4.2     4.4     4.8     5.2     4.4     4.4     3.2     2.8       265     5.2     5.4     3.4     3.6     4.0     4.8     4.0     4.2     3.0     2.6       270     4.4     4.6     2.6     2.8     3.2     4.0     3.6     3.8     2.8     2.6       275     3.8     3.8     3.8     2.4     3.2     2.8     3.6     2.6     2.4       280     3.0     3.2     2.4     3.2     2.8     3.6     2.6     2.4				8.2													
255     6.0     6.8     7.0     5.0     5.4     5.4     5.6     4.8     4.6     3.6     3.0     2.4       260     5.2     6.0     6.2     4.2     4.4     4.8     5.2     4.4     4.4     3.2     2.8       265     5.2     5.4     3.4     3.6     4.0     4.8     4.0     4.2     3.0     2.6       270     4.4     4.6     2.6     2.8     3.2     4.0     3.6     3.8     2.8     2.6       275     3.8     3.8     2.4     3.2     2.8     3.6     2.6     2.4       280     3.0     3.2     2.4     3.2     3.2																	
260     5.2     6.0     6.2     4.2     4.4     4.8     5.2     4.4     4.4     3.2     2.8       265     5.2     5.4     3.4     3.6     4.0     4.8     4.0     4.2     3.0     2.6       270     4.4     4.6     2.6     2.8     3.2     4.0     3.6     3.8     2.8     2.6       275     3.8     3.8     2.4     3.2     2.8     3.6     2.6     2.4       280     3.0     3.2     2.4     3.2     2.8     3.6     2.6     2.4																	
270       4.4       4.6       2.6       2.8       3.2       4.0       3.6       3.8       2.6       2.6         275       3.8       3.8       2.4       3.2       2.8       3.6       2.6       2.4         280       3.0       3.2       2.4       3.2       3.2       3.2																	
275     3.8     3.8     2.4     3.2     2.8     3.6     2.6     2.4       280     3.0     3.2     2.4     3.2																	
280 3.0 3.2 2.4 3.2								2.6	2.8								
										2.4		2.8		2.6	2.4		
	285					3.0	2.4				۷.٦		2.6				



#### 53 ft - 131 ft boom extension



Operating radius in feet from axis of rotation



8 m .4 ft)	16 m - 60 m (53 ft - 131 ft)	120 000 k ) (264,500 l	g 29 ft 2 in b) (100		360°					
					Pour	nds (thousands	)			
Feet						163.4				
Feet		52.5	7	2.2	9	1.9	11	1.6	13	31.2
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°
45	97.0									
50	94.0		74.0							
55	88.0	79.0	71.0							
60	82.0	77.0	69.0		54.0		43.2			
65	78.0	74.0	66.0		52.0		43.2			
70	73.0	71.0	63.0	51.0	50.0		40.0		34.6	
75	69.0	67.0	61.0	49.0	48.0		38.4		33.2	
80	65.0	64.0	58.0	48.0	47.0	36.4	37.0		32.0	
85	61.0	60.0	55.0	46.0	45.0	35.4	35.6		30.6	
90	57.0	57.0	53.0	45.0	43.4	34.4	34.4	25.0	29.0	
95	54.0	53.0	50.0	43.8	42.0	33.4	33.2	24.4	27.4	10.0
00	51.0	51.0	48.0	42.8	40.6	32.6	32.2	23.8	26.0	19.8
105	48.0	48.0	45.0	41.6	39.2	31.6	31.0	23.2	25.2	19.2
110 115	46.0	46.0	43.4	40.4 39.0	38.0	30.6	29.8	22.6	24.4 23.6	18.8 18.2
120	43.2 41.2	43.4	41.4 39.4	39.0	36.6 35.4	29.4 28.2	28.6	22.0 21.4	22.8	17.8
125	39.0	41.2 39.2	37.4	36.4	34.2	27.0	27.4	21.4	22.2	17.6
130	37.0	39.2 37.2	35.4	35.2	33.0	26.6	26.2	20.4	21.4	17.4
135	35.0	35.2	33.4	33.6	31.8	26.0	25.2	20.4	20.8	16.6
140	32.8	33.4	31.6	31.8	30.6	25.4	24.4	19.6	20.8	16.2
145	31.2	31.4	29.6	30.0	29.2	24.8	23.8	19.2	19.6	15.8
150	29.4	29.8	27.8	28.2	27.6	24.2	23.0	18.8	19.0	15.4
155	27.8	28.0	26.0	26.4	26.2	23.6	22.4	18.4	18.6	15.0
60	26.0	26.4	24.4	25.0	24.8	23.0	21.8	18.0	18.0	14.8
165	24.4	24.8	23.4	23.8	23.2	22.4	21.2	17.6	17.6	14.4
170	22.6	23.2	22.2	22.8	21.8	21.8	20.6	17.4	17.0	14.2
175	20.6	21.2	21.2	21.6	20.8	21.2	19.8	17.0	16.6	13.8
80	18.8	19.4	20.0	20.4	19.8	20.4	19.2 18.6	16.8	16.2	13.6
185	17.2	17.6	19.0	19.4	19.0	19.6	17.8	16.4	15.8	13.4
90	15.6	16.0	17.4	18.2	18.0	18.6	17.8	16.2	15.4	13.2
195	14.0		15.8	17.0	17.0	17.6	16.4	15.6	15.0	13.0
.00	12.6		14.4	15.4	16.0	16.8	15.8	15.2	14.6	12.6
205			13.0		14.6	15.8	15.0	14.8	14.2	12.4
210			11.8		13.2	15.0	14.2	14.2	13.8	12.2
215			10.6		12.0	13.6	13.2	13.8	13.2	12.0
220			9.4		10.8	12.2	12.0	13.2	12.4	11.6
225					9.8		11.0	12.8	11.8	11.4
230 235					8.8 7.8		9.8	11.6	10.8 9.8	11.2
235 240					6.8		8.8	10.4 9.2	9.8 8.8	11.0 10.6
245					٥.٥		7.8	9.2	7.8	10.8
250							6.8		6.8	9.0
255							6.0		6.0	7.8
255							5.0		5.2	6.8
265							4.2		4.4	0.0

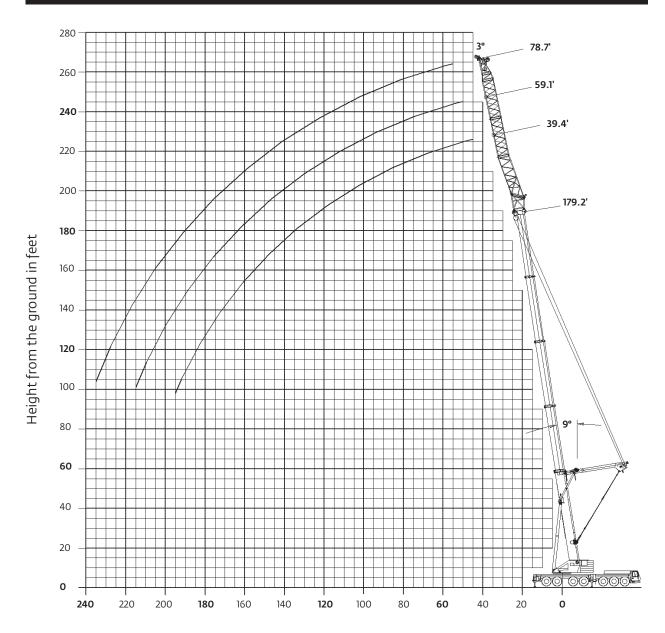


54,6 m (179.2 ft)	16 m - 40 m (53 ft - 131 ft)	120 000 k (264,500 l	g 29 ft 2 in b) (100	spread 3	<b>Q</b> 360°					
					Pounds	(thousands)				
Feet						179.2				
Feet		52.5		2.2		1.9		1.6		1.2
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°
45										
50	81.0									
55	77.0		67.0							
60	73.0	71.0	65.0							
65	70.0	67.0	61.0							
70	66.0	64.0	58.0	50.0	49.0		40.4			
75	63.0	61.0	55.0	48.0	47.0		39.0		32.2	
80	59.0	57.0	53.0	47.0	46.0	36.0	37.8		30.8	
85	56.0	54.0	50.0	46.0	44.0	35.0	36.6		29.0	
90	53.0	52.0	48.0	44.0	42.6	34.2	35.6	2F.C	27.6	
95 100	50.0	49.0 47.0	46.0	43.0 41.6	41.2 39.6	33.2 32.4	34.4	25.6 25.0	26.6 25.8	
105	47.0 45.0	45.0	43.6 41.6	40.0	38.0	31.6	33.4	24.4	25.0	19.2
110	43.0	42.6	39.6	38.4	36.4	30.8	32.4	23.8	24.2	18.6
115	40.8	40.6	38.0	36.8	34.8	30.0	31.6	23.2	23.4	18.2
120	38.8	38.6	36.4	35.2	33.2	29.0	30.6	22.8	22.8	17.8
125	36.6	36.8	34.8	33.4	31.8	28.0	29.4	22.2	22.0	17.4
130	34.6	34.8	33.0	31.6	30.2	27.0	28.2	21.8	21.4	17.0
135	32.8	32.8	31.4	29.8	28.6	26.0	26.8	21.4	20.8	16.6
140	30.8	31.0	29.8	28.2	27.2	25.2	25.6	20.8	20.4	16.2
145	28.8	29.0	28.4	27.0	25.6	24.4	24.2 23.2	20.4	19.8	15.8
150	27.0	27.2	26.8	25.8	24.4	23.6	23.2	20.0	19.2	15.6
155	25.2	25.4	25.4	24.8	23.4	23.0	21.6	19.8	18.6	15.2
160	24.0	24.2	23.8	23.6	22.4	22.2	20.8	19.4	18.2	14.8
165	22.8	23.2	22.4	22.6	21.4	21.4	19.8	19.0	17.6	14.6
170	21.8	22.0	21.2	21.6	20.6	20.6	19.0	18.6	17.0	14.4
175	20.6	20.8	20.2	20.6	19.6	19.8	18.4	18.0	16.6	14.0
180	19.4	19.6	19.2	19.6	18.6	18.8	17.6	17.4	16.0	13.8
185 190	18.0	18.4	18.2	18.6	17.8	18.0	16.8	16.8	15.6	13.6
190	16.4	17.0 15.4	17.4	17.8 16.8	17.0	17.4	16.2	16.2	15.0 14.4	13.2 13.0
200	15.0 13.6	14.0	16.4 15.0	15.8	16.2 15.4	16.6 15.8	15.4	15.6 15.0	13.8	12.8
205	12.2	14.0	13.8	15.0	14.6	15.0	14.6	14.4	13.2	12.6
210	11.0		12.4	13.6	13.8	14.4	14.0	13.8	12.6	12.4
215	9.8		11.2	12.2	12.8	13.6	13.2	13.2	12.0	12.2
220	5.0		10.0	14.4	11.6	12.8	12.6	12.6	11.4	11.8
225			9.0		10.4	11.8	12.0	12.0	10.8	11.4
230			7.8		9.4	10.6	11.2	11.4	10.4	11.0
235			6.8		8.4	9.4	10.0	10.8	9.8	10.4
240					7.4	8.2	9.0 8.0	9.8	8.8	10.0
245					6.4		7.2	8.6	7.8	9.4
250					5.4		6.2	7.6	7.0	9.0
255					4.6		5.4	6.6	6.0	8.4
260							4.6		5.2	7.4
265							3.8		4.4	6.4
270							5.0		3.6	5.4
275										4.4



# Working range With MegaWingLift

#### 39 ft - 79 ft boom extension with MegaWingLift



Operating radius in feet from axis of rotation



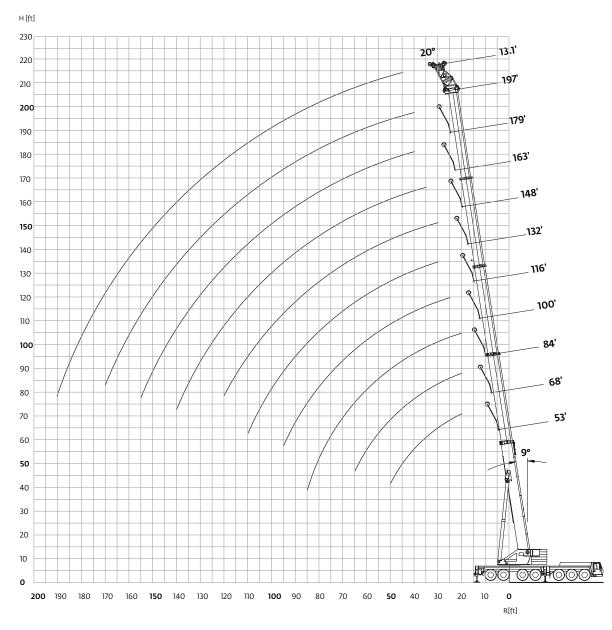
### Load chart With MegaWingLift

49,8 m - 54, (163.4 ft - 179	6 m 12 m - 24 .2 ft) (39 ft - 79	m 160 000 kg 29 ft) (352,700 lb)	ft 2 in spread (100%)	<b>Q</b>			
				ounds (thousands)			
Feet Feet	20.4	163.4 59.1	70 7	39.4	179.2 59.1	78.7	
reet	39.4 3°	3°	78.7 3°	39.4 3°	3°	/8./ 3°	
	3°	3°	3°	3°	3°	3°	
40	114.0						
45	107.0	86.0		100.0			
50	100.0	81.0	66.0	94.0	78.0		
55	95.0	77.0	63.0	88.0	74.0	62.0	
60	90.0	73.0	61.0	83.0	69.0	59.0	
65	85.0	69.0	58.0	79.0	65.0	56.0	
70	81.0	65.0	55.0	74.0	62.0	52.0	
75	77.0	62.0	52.0	71.0	58.0	50.0	
80 85	73.0	59.0	49.0	68.0	55.0	48.0	
90	69.0	56.0	47.0	65.0	52.0	45.0	
	67.0	53.0	45.0	62.0	50.0	43.2	
95	64.0	51.0	43.2	59.0	48.0	41.4	
100 105	62.0	49.0	41.4	56.0	46.0	39.8	
110	59.0	47.0	39.4	54.0	43.8	38.2	
115	57.0	45.0	38.0	52.0	42.2	36.6	
120	55.0	43.4	36.8	49.0	40.8	35.0	
125	53.0	41.8	35.4	47.0	39.4	33.6	
130	51.0	40.2	34.2	46.0 44.0	37.8	32.2 30.8	
135	49.0	39.0	32.8	43.0	36.4 35.0		
140	47.0 46.0	37.8	31.4 30.4	41.6	33.8	29.4 28.0	
145	45.0	36.6 35.4	29.2	40.2	32.4	26.6	
150	43.4	35.4	28.0	38.8	31.2	25.8	
155	40.8	33.2	27.0	37.8	29.8	25.0	
160	38.2	33.2	25.8	36.8	28.6	24.2	
165	35.6	31.4	24.6	35.8	27.4	23.6	
170	33.4	30.6	23.8	34.4	26.6	22.8	
175	31.2	29.8	23.2	32.2	26.0	22.0	
180	29.2	28.8	22.6	30.2	25.2	21.4	
185	LJ.L	28.0	22.0	28.2	24.6	20.8	
190		27.0	21.4	26.4	23.8	20.2	
195		25.4	20.8	24.6	23.2	19.6	
200		23.6	20.2	20	22.8	19.2	
205		25.0	19.8		22.2	18.6	
210			19.4		21.2	18.0	
215			19.0		19.8	17.6	
220			18.4			17.2	
225						16.8	
230						16.4	
235						16.0	



#### 13 ft heavy duty jib

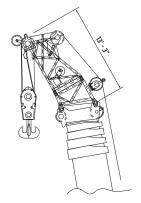
Height from the ground in feet



Operating radius in feet from axis of rotation

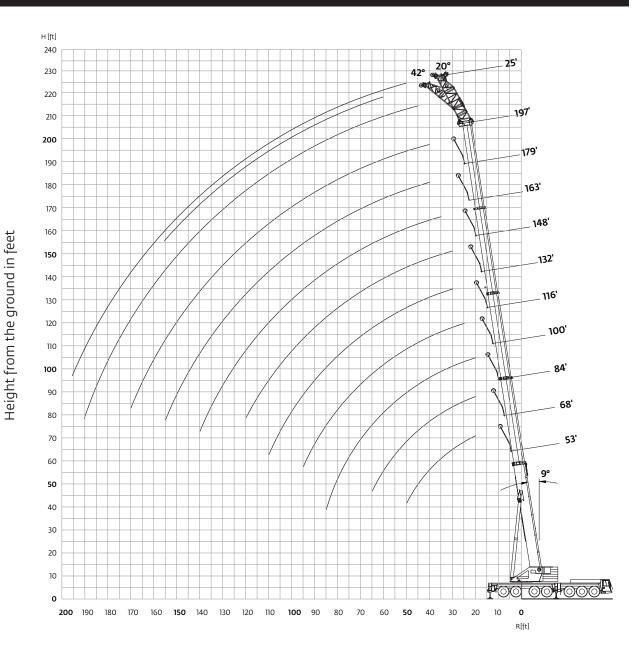


16,0 m - 60 m (53 ft - 197 ft)	4 m (13.1 ft)	120 ( (264,	000 kg 500 lb)	29 ft 2 in spread (100%)	<b>Q</b> 360°					
					Pounds	(thousands)				
Feet	52.6	68.4	84.3	100.1	115.9	131.7	147.6	163.4	179.2	196.9
20	190.0	190.0	190.0							
25	190.0	190.0	190.0	190.0						
30	190.0	190.0	190.0	190.0	190.0	190.0				
35	190.0	190.0	190.0	190.0	190.0	182.0	166.0			
40	190.0	190.0	190.0	190.0	181.0	167.0	153.0	138.0	120.0	
45	190.0	190.0	190.0	185.0	164.0	151.0	140.0	129.0	116.0	104.0
50	190.0	190.0	187.0	170.0	151.0	140.0	130.0	121.0	109.0	99.0
55		171.0	169.0	156.0	138.0	129.0	120.0	113.0	102.0	94.0
60		154.0	151.0	143.0	128.0	118.0	110.0	105.0	96.0	89.0
65		138.0	135.0	132.0	119.0	109.0	102.0	98.0	91.0	84.0
70			120.0	121.0 108.0	110.0	102.0 95.0	95.0	91.0 85.0	85.0	79.0
75			107.0		103.0		88.0		80.0	74.0 71.0
80 85			96.0 86.0	97.0 88.0	97.0 88.0	88.0 83.0	82.0	79.0 74.0	75.0 71.0	67.0
90			86.0	79.0	88.0	78.0	77.0 73.0	74.0	67.0	63.0
95				79.0	73.0	74.0	68.0	66.0	63.0	60.0
100				72.0	66.0	68.0	64.0	62.0	60.0	56.0
105					60.0	62.0	61.0	58.0	57.0	53.0
110					55.0	57.0	58.0	55.0	54.0	49.0
115					33.0	52.0	54.0	52.0	51.0	47.0
120						48.0	50.0	49.0	48.0	45.0
125						40.0	46.0	47.0	45.0	42.6
130							42.2	45.0	43.4	40.4
135							39.0	41.2	41.4	38.2
140							36.0	38.2	39.4	36.2
145							50.0	35.4	37.4	34.4
150								32.8	34.8	32.8
155								30.4	32.4	31.0
160									30.2	29.2
165									28.0	27.4
170									26.2	25.6
175										24.4
180										22.6
185										21.0
190										19.4





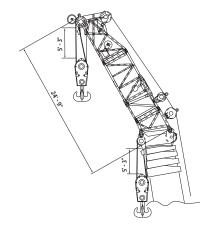
#### 25 ft heavy duty jib



Operating radius in feet from axis of rotation



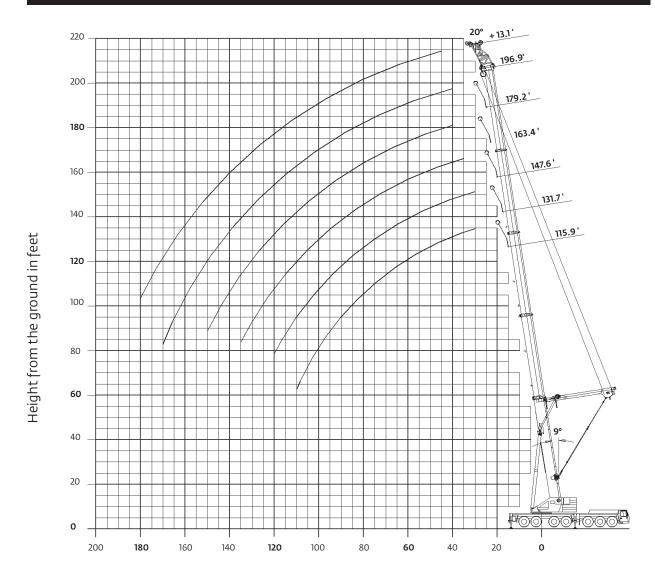
16,0 m - 60 (53 ft - 197 f	m	7,5 m 24.6 ft)		120 00 264,50			in spre	ad	<b>Q</b>											
(a)									P	ounds (	(thousa	nds)								
Feet	5	2.6	68	3.4	84	1.3	10	0.1	11!	5.9	13	1.7	14	7.6	16	3.4	17	9.2	19	96.9
	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°
20	118.0		122.0																	
25	107.0	94.0	113.0	97.0	117.0															
30	100.0	89.0	106.0	93.0	110.0	95.0	114.0	96.0	115.0											
35	93.0	85.0	100.0	89.0	104.0	91.0	108.0	93.0	110.0	94.0	111.0									
40	88.0	81.0	94.0	85.0	99.0	88.0	103.0	90.0	105.0	91.0	107.0	92.0	106.0	92.0	104.0					
45	84.0	79.0	89.0	83.0	95.0	85.0	99.0	88.0	101.0	89.0	103.0	90.0	103.0	90.0	101.0	07.0	97.0	04.0	00.0	
50	79.0	77.0	85.0	80.0	91.0	83.0	95.0	85.0	98.0	87.0 85.0	100.0	88.0	100.0	87.0 86.0	99.0	87.0 85.0	95.0	84.0	88.0	
55	76.0		82.0	78.0	87.0	81.0	91.0	83.0 81.0	94.0	83.0	96.0 93.0	86.0 84.0	97.0 94.0	84.0	95.0 91.0	83.0	91.0 87.0	83.0 82.0	84.0 80.0	78.0
60 65	75.0 74.0		79.0 76.0	77.0 76.0	83.0 81.0	79.0 78.0	88.0 85.0	80.0	91.0 88.0	81.0	93.0	82.0	94.0	83.0	87.0	82.0	83.0	80.0	76.0	75.0
70	74.0		75.0	70.0	79.0	77.0	82.0	78.0	86.0	80.0	88.0	81.0	87.0	80.0	83.0	80.0	78.0	76.0	72.0	72.0
70 75			75.0		76.0	76.0	80.0	78.0	83.0	79.0	85.0	80.0	82.0	78.0	79.0	78.0	73.0	72.0	68.0	68.0
80			73.0		74.0	70.0	78.0	77.0	80.0	77.0	81.0	77.0	78.0	75.0	75.0	74.0	69.0	69.0	65.0	65.0
85					74.0		76.0	76.0	78.0	75.0	77.0	74.0	73.0	73.0	70.0	70.0	66.0	65.0	61.0	61.0
90					74.0		74.0	76.0	75.0	73.0	73.0	72.0	69.0	69.0	66.0	66.0	62.0	62.0	58.0	58.0
95							73.0		72.0	71.0	69.0	69.0	65.0	65.0	62.0	63.0	58.0	59.0	54.0	55.0
100							68.0		68.0		65.0	66.0	61.0	61.0	59.0	60.0	55.0	55.0	52.0	52.0
105							62.0		62.0		62.0	62.0	57.0	57.0	56.0	56.0	53.0	53.0	49.0	49.0
110							56.0		57.0		58.0	59.0	53.0	54.0	52.0	53.0	50.0	50.0	47.0	47.0
115									52.0		54.0		51.0	51.0	49.0	50.0	48.0	48.0	44.0	45.0
120									48.0		49.0		48.0	49.0	47.0	47.0	45.0	45.0	42.0	42.4
125											45.0		46.0		44.0	45.0	42.8	43.0	40.0	40.4
130											41.4		42.8		42.2	42.4	40.4	40.8	38.2	38.6
135											38.0		39.4		40.2	40.2	38.4	39.0	36.2	36.6
140													36.4		38.0		36.4	37.2	34.4	34.8
145 150													33.4 30.6		35.4 32.8		34.4 32.4		32.6 30.8	32.8 31.0
150													30.6		32.8		30.4		29.2	29.4
160															27.8		28.4		27.6	29.4
165															27.0		27.0		26.2	
170																	25.2		24.6	
175																	23.4		23.0	
180																	21.6		21.4	
185																	23		19.8	
190																			18.2	
195																			16.8	





### Working range With MegaWingLift

#### 13 ft heavy duty jib with MegaWingLift



Operating radius in feet from axis of rotation



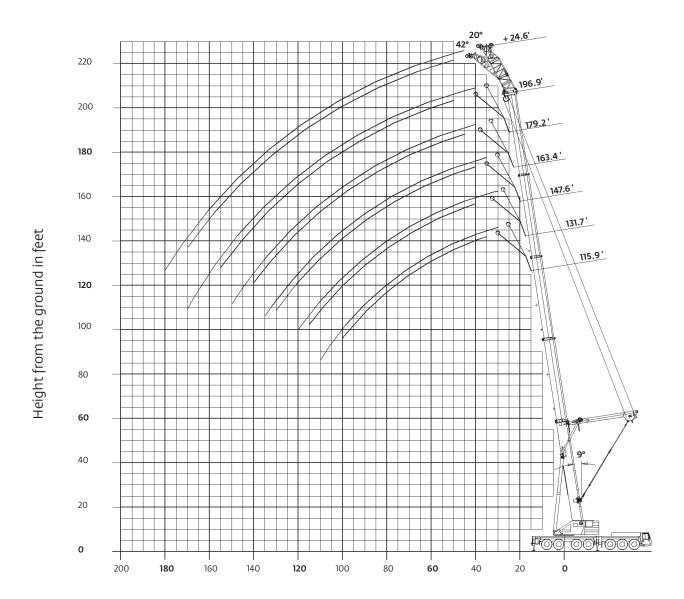
### Load chart With MegaWingLift

35,3 m - 60 (116 ft - 197		160 000 kg (352,700 lb)	29 ft 2 in spread (100%)	<b>Q</b> 360°		
()	(15.114)	(332), 66 10)				
			P	ounds (thousands)		
	775.0	101 7	147.6	162.4	170.2	106.0
Feet	115.9	131.7	147.6	163.4	179.2	196.9
30	190.0	190.0				
35	190.0	190.0	190.0			
40	190.0	190.0	190.0	171.0	148.0	
45	190.0	190.0	190.0	162.0	139.0	128.0
50	187.0	186.0	188.0	154.0	132.0	121.0
55	173.0	175.0	175.0	146.0	125.0	115.0
60	157.0	159.0	165.0	140.0	119.0	109.0
65	143.0	145.0	155.0	134.0	113.0	104.0
70	131.0	133.0	145.0	128.0	108.0	99.0
75	120.0	123.0	134.0	122.0	103.0	95.0
80	110.0	113.0	123.0	115.0	99.0	91.0
85	102.0	104.0	113.0	106.0	95.0	88.0
90	94.0	97.0	104.0	99.0	91.0	84.0
95	88.0	90.0	97.0	92.0	87.0	81.0
100	81.0	84.0	90.0	86.0	84.0	78.0
105	76.0	78.0	84.0	80.0	81.0	76.0
110	69.0	73.0	78.0	75.0	76.0	73.0
115		68.0	73.0	70.0	72.0	70.0
120		63.0	68.0	66.0	67.0	68.0
125			59.0	61.0	63.0	63.0
130			55.0	57.0	59.0	59.0
135			51.0	54.0	55.0	56.0
140				50.0	52.0	52.0
145				47.0	49.0	49.0
150				44.0	46.0	46.0
155					43.0	43.2
160					40.6	40.6
165					38.2	38.2
170					35.2	36.0
175						33.8
180						31.8



# Working range With MegaWingLift

#### 25 ft heavy duty jib with MegaWingLift



Operating radius in feet from axis of rotation

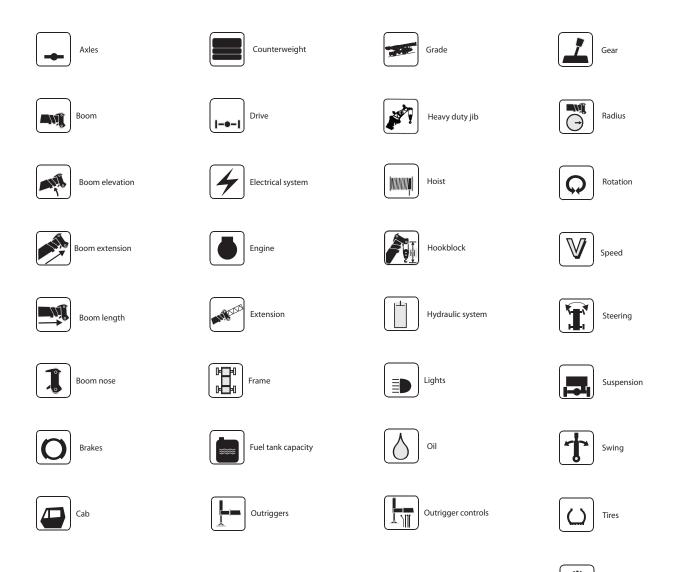


# Load chart With MegaWingLift

						Pound	ds (thousand	is)				
Feet	115.9		131.7		14	7.6	163	3.4	179.2		19	96.9
	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°	20°	42°
30	148.0		147.0									
35	140.0	114.0	140.0		138.0							
10	133.0	110.0	132.0	109.0	131.0	107.0	123.0		113.0			
45	126.0	106.0	126.0	105.0	125.0	104.0	117.0	100.0	108.0			
50	120.0	102.0	120.0	101.0	119.0	100.0	111.0	96.0	102.0	90.0	95.0	84.0
55	115.0	99.0	115.0	98.0	114.0	97.0	106.0	93.0	97.0	87.0	91.0	81.0
50	110.0	96.0	110.0	95.0	110.0	94.0	101.0	89.0	93.0	83.0	86.0	78.0
65	106.0	93.0	106.0	93.0	105.0	91.0	97.0	86.0	89.0	80.0	83.0	75.0
70	102.0	91.0	102.0	90.0	101.0	89.0	94.0	84.0	85.0	77.0	79.0	72.0
75	98.0	88.0	98.0	88.0	97.0	86.0	90.0	81.0	81.0	74.0	75.0	69.0
30	95.0	86.0	95.0	86.0	94.0	84.0	86.0	78.0	78.0	72.0	72.0	67.0
85	92.0	84.0	92.0	84.0	91.0	82.0	84.0	76.0	75.0	69.0	70.0	65.0
90	89.0	83.0	89.0	82.0	88.0	80.0	81.0	74.0	72.0	67.0	67.0	63.0
95	86.0	81.0	86.0	80.0	86.0	78.0	78.0	72.0	69.0	65.0	65.0	61.0
00	82.0	80.0	84.0	78.0	83.0	76.0	75.0	70.0	67.0	63.0	62.0	59.0
05	77.0		79.0	77.0	79.0	75.0	73.0	68.0	65.0	62.0	60.0	57.0
10	71.0		74.0	74.0	74.0	74.0	71.0	67.0	62.0	60.0	58.0	55.0
15	66.0		68.0	69.0	69.0	70.0	69.0	66.0	60.0	58.0	56.0	54.0
20	61.0		64.0		64.0	65.0	66.0	64.0	58.0	56.0	54.0	52.0
25			59.0		59.0	60.0	61.0	62.0	57.0	55.0	52.0	50.0
30			55.0		55.0	56.0	57.0	58.0	55.0	53.0	51.0	49.0
35			51.0		52.0		53.0	54.0	53.0	52.0	49.0	48.0
10					48.0		50.0	51.0	51.0	50.0	48.0	47.0
45					45.0		47.0		48.0	49.0	47.0	46.0
50					41.8		43.6		45.0	46.0	45.0	45.0
55							40.8		42.4	43.0	42.6	43.0
50							38.0		39.8		40.0	40.4
65									37.2		37.4	37.8
70									35.0		35.0	35.4
175									32.8		32.8 30.8	
80 85											28.8	
85 90											28.8	
90 95											25.2	



## Symbols glossary





Transmission



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