Grove GMK6350
Product Guide

Features

• 15.5 m - 60 m (51 ft - 197 ft) five-section full power MEGAFORM™ boom

• 11 m - 19 m (36 ft - 62 ft) telescoping offsettable swingaway extension

• 21 m - 61 m (69 ft - 200 ft) luffing jib

• MEGALIFT™ main boom attachment

• 100 t (220,400 lb) counterweight with hydraulic removal system

• Independent hydro-pneumatic MEGATRAK™ suspension
MEGATRAK™

The MEGATRAK™ suspension system is the best off road driveline available on the market today. The system’s versatility and performance allows the GMK6350 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

EKS 5 Light

Monitoring the lifting condition of the crane at all times EKS works together with, but independently of the ECOS as a complete command and control system or separately as a load moment indicator.

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.
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## Specifications

### Superstructure

#### Boom

15.5 m - 60 m (51 ft - 197 ft) five-section, full power MEGAFORM™ boom with patented TWIN-LOCK™ boom pinning system.

Maximum tip height: 63 m (207 ft).

#### Boom elevation

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

#### Telescopic swingaway extension

11 m - 19 m (36 ft - 62 ft) telescoping offsettable swingaway extension. Offsettable at 5° and 30°.

#### Lattice extension

Luffing Jib is a lattice design with lengths of 21 m - 61 m (69 ft - 200 ft) in sections of 8 m (26 ft). The luffing jib converts to a fixed offset lattice jib using an offset angle adapter and provides lengths of 19 m - 59 m (62 ft - 194 ft) offsettable at 3° and 25°.

#### MEGALIFT™ attachment main boom

Consists of a mast, pendant lines, and hydraulic tensioning winch to support the main boom during lifting operations. Load charts available for main boom only as optional equipment.

#### Load moment and anti-two block system

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

#### Cab

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

### Swing

Three (3) axial piston fixed displacement motors provide swing speed of 0 - 1.6 rpm thru planetary gear box. Also provided is a spring applied, hydraulically released automatic swing brake with foot operated release for free swing.

### Counterweight

100 t (220,400 lb) consisting of various sections with hydraulic installation/removal system (see counterweight configuration on page 9).

### Engine

Mercedes-Benz OM906LA, diesel, six (6) cylinders, water cooled, turbocharged, 205 kW (275 hp) at 1800 rpm.

Max. torque: 1100 Nm (811 ft/lb) at 1300 rpm.

Engine emission: EUROMOT/EPA/CARB.

### Fuel tank capacity

330 L (87 gal).

### Hydraulic system

Four (4) separate circuits, three (3) axial piston variable displacement pumps with electronic power limiting control and 1 axial piston variable displacement pump for slewing. Standard thermostatically controlled oil cooler keeps oil at optimum operating temperature. Tank capacity: 1220 L (322 gal).

### Crane 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/80 A, 2 batteries 12 V/170 Ah.

*Denotes optional equipment
Specifications

Superstructure continued

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.

<table>
<thead>
<tr>
<th>Main</th>
<th>Auxiliary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Line length:</strong></td>
<td>300 m (984 ft)</td>
</tr>
<tr>
<td><strong>Rope diameter:</strong></td>
<td>24 mm</td>
</tr>
<tr>
<td><strong>Line speed:</strong></td>
<td>140 m/min (460 ft/min)</td>
</tr>
<tr>
<td><strong>Line pull:</strong></td>
<td>110 kN (24,700 lb)</td>
</tr>
</tbody>
</table>

*Optional hookblocks

<table>
<thead>
<tr>
<th>Lifting capacity</th>
<th>No. of sheaves</th>
<th>Weight</th>
<th>Parts of line</th>
<th>Possible load with the crane*</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 t (220 USt)</td>
<td>9</td>
<td>3000 kg (6614 lb)</td>
<td>2-18*19</td>
<td>193 t/200t (423 USt/220 USt)</td>
</tr>
<tr>
<td>160 t (176 USt)</td>
<td>7</td>
<td>2975 kg (6559 lb)</td>
<td>2-15</td>
<td>160 t (176 USt)</td>
</tr>
<tr>
<td>125 t (138 USt)</td>
<td>5</td>
<td>1650 kg (3638 lb)</td>
<td>2-11</td>
<td>120 t (132 USt)</td>
</tr>
<tr>
<td>80 t (88 USt)</td>
<td>3</td>
<td>1125 kg (2480 lb)</td>
<td>2-7</td>
<td>77 t (85 USt)</td>
</tr>
<tr>
<td>32 t (35 USt)</td>
<td>1</td>
<td>620 kg (1367 lb)</td>
<td>1-3</td>
<td>32 t (35 USt)</td>
</tr>
<tr>
<td>12 t (13 USt)</td>
<td>H/B</td>
<td>300 kg (661 lb)</td>
<td>1</td>
<td>11 t (12 USt)</td>
</tr>
</tbody>
</table>

*Requires additional boom nose sheave.
*Varies depending on national regulations.

*Optional equipment

- Engine-independent diesel heater, with engine pre-heater
- Second spotlight
- Stereo/CD player
- Air Conditioning
- Stainless steel exhaust system
- MEGALIFT™ attachment
- Engine independent propane cab heater
- Auxiliary boom nose
- Boom mounted work lights
- Aircraft warning light
- 24 hour timer for diesel heater

Carrier

Chassis

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

Outrigger system

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

- Fully extended (100%) - 8.5 m (27 ft 11 in)
- Partially extended (50%) - 6 m (19 ft 8 in)

Four (4) 750 mm x 810 mm (29.5 in x 32 in), self stowing, steel outrigger pads provide rigid lifting base. Outrigger controls are located on both sides of the carrier. An electronic level indicator is located next to each outrigger control box. Outrigger monitoring system comes standard.

Engine

Mercedes-Benz OM502LA, diesel, eight (8) cylinders, water-cooled, turbocharged, 420 kW (563 hp) at 1800 rpm.
Max. torque: 2700 Nm (1991 ft/lb) at 1080 rpm.
Engine emission: EPA/CARB.

Fuel tank capacity

500 L (132 gal).

Transmission

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

Drive/steer

12 x 6 x 12.

Axles

Six (6) axles, 1, 4 and 5 are drive/steer. Axles 3 and 6 are steer only.
Specifications

Carrier continued

**Suspension**

Grove GMK6350 features the Grove exclusive MEGATRAK™ suspension. This revolutionary design features an independent hydropneumatic system with hydraulic lockout acting on all wheels. The suspension can be raised 170 mm (6 ft 1/2 in) or lowered 130 mm (5 in) both longitudinally and transversely and features an automatic leveling system for on-highway travel.

**Tires**

12 tires, 16.00 R25 (vehicle width 9 ft 10 in)

**Steering**

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

**Brakes**

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

**Cab**

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

**Electrical system**

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

**Maximum speed**

77 km/h (48 mph) with 16.00/20.5 tires.

**Gradeability (theoretical)**

46% with 20.5 R25 tires.

**Miscellaneous standard equipment**

Boom removal kit; trailing boom kit (less dolly); additional hydraulic oil cooler; removable rear outrigger box; flashing amber warning light on carrier cab; working light; tool kit; fire extinguisher; radio cassette in carrier cab.

**Optional equipment**

- 12 x 8 x 12 (1,2,4 and 5 driven axles)
- Electric driveline retarder
- 20.5 tires
- Outrigger pressure measurement devices
- Engine-independent hot water heater, with engine pre-heater
- Stainless steel exhaust system
- Trailing boom “boost” weight transfer kit
- Air conditioning
- Spare tire and wheel
- Worklights for outriggers
- Engine independent propane cab heater
- Rear mounted stowage box

*Denotes optional equipment
### Basic weights:

<table>
<thead>
<tr>
<th></th>
<th>Axles 1 and 2</th>
<th>Axles 3-6</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercedes power, 12x6, 20.5 R25 tires, 2nd hydraulic oil cooler, brackets for swingaway</td>
<td>23 034 kg</td>
<td>50,781 lb</td>
<td>48 974 kg</td>
</tr>
<tr>
<td><strong>Additions:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12x8x12 in lieu</td>
<td>438 kg</td>
<td>965 lb</td>
<td>-48 kg</td>
</tr>
<tr>
<td>Outrigger pads</td>
<td>-</td>
<td>-</td>
<td>350 kg</td>
</tr>
<tr>
<td>Removable rear outrigger box option</td>
<td>-556 kg</td>
<td>-1225 lb</td>
<td>1556 kg</td>
</tr>
<tr>
<td>Auxiliary hoist</td>
<td>-2434 kg</td>
<td>-5365 lb</td>
<td>5984 kg</td>
</tr>
<tr>
<td>Swingaway</td>
<td>372 kg</td>
<td>6860 lb</td>
<td>-692 kg</td>
</tr>
<tr>
<td>Spare wheel 20.5 with stowage</td>
<td>-268 kg</td>
<td>-590 lb</td>
<td>635 kg</td>
</tr>
<tr>
<td>Spare wheel 16.00 with stowage</td>
<td>-236 kg</td>
<td>-520 lb</td>
<td>562 kg</td>
</tr>
<tr>
<td>Spare wheel 14.00 with stowage</td>
<td>-193 kg</td>
<td>-425 lb</td>
<td>458 kg</td>
</tr>
<tr>
<td>Fixed MEGALIFT™ brackets without winch</td>
<td>296 kg</td>
<td>653 lb</td>
<td>-56 kg</td>
</tr>
<tr>
<td>Fixed bracket for MEGALIFT™ winch</td>
<td>54 kg</td>
<td>119 lb</td>
<td>96 kg</td>
</tr>
<tr>
<td>Bolted parts for MEGALIFT™</td>
<td>54 kg</td>
<td>119 lb</td>
<td>96 kg</td>
</tr>
<tr>
<td>MEGALIFT™ winch</td>
<td>26,58 kg</td>
<td>6257 lb</td>
<td>26,02 kg</td>
</tr>
<tr>
<td><strong>Removal:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front outrigger beams and jacks</td>
<td>-1533 kg</td>
<td>-3380 lb</td>
<td>-898 kg</td>
</tr>
<tr>
<td>Rear outrigger beams and jacks</td>
<td>1692 kg</td>
<td>3730 lb</td>
<td>-4377 kg</td>
</tr>
<tr>
<td>Outrigger box (must add weight above for option)</td>
<td>3062 kg</td>
<td>6750 lb</td>
<td>-7961 kg</td>
</tr>
<tr>
<td>Boom assembly (minus lift cylinder)</td>
<td>-15 762 kg</td>
<td>-34,750 lb</td>
<td>-10 512 kg</td>
</tr>
<tr>
<td>Telescopic sections 1-4</td>
<td>-12 655 kg</td>
<td>-27,900 lb</td>
<td>-7194 kg</td>
</tr>
<tr>
<td>Lift cylinder</td>
<td>-1021 kg</td>
<td>-2250 lb</td>
<td>-1542 kg</td>
</tr>
<tr>
<td>16.00 R25 tires in lieu</td>
<td>-168 kg</td>
<td>-370 lb</td>
<td>-336 kg</td>
</tr>
<tr>
<td>14.00 R25 tires in lieu</td>
<td>-408 kg</td>
<td>-900 lb</td>
<td>-816 kg</td>
</tr>
</tbody>
</table>

### Dimensions

- **Axles 1 and 2:**
  - 16.00 R25 tires in lieu
  - Lift cylinder
  - Outrigger box (must add weight above for option)
  - Rear outrigger beams and jacks
  - Boom assembly (minus lift cylinder)
  - Telescopic sections 1-4
  - Lift cylinder
  - 16.00 R25 tires in lieu

- **Axles 3-6:**
  - 16.00 R25 tires in lieu
  - Lift cylinder
  - Outrigger box (must add weight above for option)
  - Rear outrigger beams and jacks
  - Boom assembly (minus lift cylinder)
  - Telescopic sections 1-4

- **Total:**
  - Lift cylinder
  - Outrigger box (must add weight above for option)
  - Rear outrigger beams and jacks
  - Boom assembly (minus lift cylinder)
  - Telescopic sections 1-4

- **Grove GMK6350**
# Trailing boom proposal

**UNIT EQUIPPED AS FOLLOWS:**

Mercedes engines carrier and superstructure, outrigger pads in place, frame equipped for removable outrigger box, rear box in place, main & auxiliary hoist with rope, swingaway on boom, 3-axle boom dolly (2837 kg [7600 lb]), 16.00 tires, counterweight removed. 12 x 6 x 12 drive.

**Weight effects:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Dolly</th>
<th>Rear Axles</th>
<th>Front Axles</th>
<th>Gross</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove rear outrigger box</td>
<td>0</td>
<td>-6553 kg (-17,555 lb)</td>
<td>252 kg (+575 lb)</td>
<td>-4032 kg (-10,802 lb)</td>
</tr>
<tr>
<td>Remove front outrigger beams</td>
<td>0</td>
<td>-739 kg (-1,980 lb)</td>
<td>-1280 kg (-3377 lb)</td>
<td>-1999 kg (-5357 lb)</td>
</tr>
<tr>
<td>Remove rear outrigger beams</td>
<td>0</td>
<td>-3603 kg (-9652 lb)</td>
<td>1393 kg (+3732 lb)</td>
<td>-2209 kg (-5919 lb)</td>
</tr>
<tr>
<td>Remove auxiliary hoist with rope</td>
<td>0</td>
<td>-796 kg (-2194 lb)</td>
<td>-1475 kg (-3951 lb)</td>
<td>-2271 kg (-6085 lb)</td>
</tr>
<tr>
<td>Remove swingaway</td>
<td>-2361 kg (-5205 lb)</td>
<td>+17 kg (+39 lb)</td>
<td>+13 kg (+35 lb)</td>
<td>-1893 kg (-5071 lb)</td>
</tr>
<tr>
<td>Add 12 x 8 x 12 Drive</td>
<td>0</td>
<td>-40 kg (-106 lb)</td>
<td>+361 kg (+966 lb)</td>
<td>+320 kg (+860 lb)</td>
</tr>
<tr>
<td>Fixed MEGALIFT brackets w/o winch</td>
<td>248 kg (547 lb)</td>
<td>-5 kg (-13 lb)</td>
<td>-2 kg (-4 lb)</td>
<td>197 kg (529 lb)</td>
</tr>
<tr>
<td>Fixed bracket for MEGALIFT winch</td>
<td>77 kg (170 lb)</td>
<td>44 kg (119 lb)</td>
<td>16 kg (42 lb)</td>
<td>124 kg (331 lb)</td>
</tr>
<tr>
<td>Bolted parts for MEGALIFT</td>
<td>77 lb (170 lb)</td>
<td>44 lb (119 lb)</td>
<td>16 lb (42 lb)</td>
<td>124 lb (331 lb)</td>
</tr>
</tbody>
</table>

**G.V.W.: 67 708 kg (181,402 lb)**

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![Diagram of the boom with dimensions and weights](image)

- 1371 mm (54°) Dolly
- 5883 mm (19° 3") Rear 4 Axles
- 1646 mm (5° 5") Front 2 Axles
- 24 506 mm (80° 5") Swingaway Installed
- 24 323 mm (79° 8") Swingaway Removed
- 19 355 mm (63° 6"")

---

8
Counterweight

1. 8 t (17,600 lb)
2. 14 t (30,900 lb)
3A. 7 t (15,450 lb)
3B. 7 t (15,450 lb)
4. 14 t (30,900 lb)
5. 15 t (33,000 lb)
6. 15 t (33,000 lb)
7. 10 t (22,050 lb)
8. 10 t (22,050 lb)
**Load chart overview**

<table>
<thead>
<tr>
<th>Feet</th>
<th>Thousand pounds</th>
<th>Untouched</th>
<th>360°</th>
</tr>
</thead>
<tbody>
<tr>
<td>15,5 m - 60,0 m (31 ft - 197 ft)</td>
<td>8,7 m - 8,5 m (28.5 ft x 27.9 ft)</td>
<td>8,7 m - 6,0 m (28.5 ft x 19.7 ft)</td>
<td></td>
</tr>
</tbody>
</table>

- **Feet**
  - 15,5 m - 60,0 m (31 ft - 197 ft)
  - 5°, 25°
  - 11,0 m/18,0 m (36 ft/59 ft)

- **Thousand pounds**
  - 220.4
  - 176.3
  - 110.2
  - 79.3
  - 48.5
  - 17.6
  - 0

- **Degree of Boom Angle**
  - 5°, 25°

<table>
<thead>
<tr>
<th>Feet</th>
<th>Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>88</td>
</tr>
<tr>
<td>141</td>
<td>147</td>
</tr>
<tr>
<td>194</td>
<td>167</td>
</tr>
<tr>
<td>88</td>
<td>115</td>
</tr>
<tr>
<td>147</td>
<td>194</td>
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<tr>
<td>115</td>
<td>141</td>
</tr>
<tr>
<td>147</td>
<td>194</td>
</tr>
<tr>
<td>194</td>
<td>62</td>
</tr>
<tr>
<td>62</td>
<td>115</td>
</tr>
</tbody>
</table>

*(Note: ° denotes 90°)*

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

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

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
## Load charts

### Main boom

<table>
<thead>
<tr>
<th>Feet</th>
<th>Pounds x 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>466.0</td>
</tr>
<tr>
<td>15</td>
<td>420.0</td>
</tr>
<tr>
<td>20</td>
<td>370.0</td>
</tr>
<tr>
<td>25</td>
<td>320.0</td>
</tr>
<tr>
<td>30</td>
<td>270.0</td>
</tr>
<tr>
<td>35</td>
<td>220.0</td>
</tr>
<tr>
<td>40</td>
<td>160.0</td>
</tr>
<tr>
<td>45</td>
<td>140.0</td>
</tr>
<tr>
<td>50</td>
<td>100.0</td>
</tr>
<tr>
<td>55</td>
<td>73.0</td>
</tr>
<tr>
<td>60</td>
<td>50.0</td>
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<tr>
<td>65</td>
<td>28.0</td>
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<td>70</td>
<td>15.0</td>
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<td>75</td>
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<td>80</td>
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<td>165</td>
<td>1.0</td>
</tr>
<tr>
<td>170</td>
<td>1.0</td>
</tr>
<tr>
<td>175</td>
<td>1.0</td>
</tr>
</tbody>
</table>

*Over rear, 28 ft 6 in x 19 ft 8 in outrigger base

Lifting capacities greater than 425,000 lb require additional equipment.

†700,000 lb is a comparative rating

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### 15,5 m - 60,0 m

<table>
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*Over rear, 28 ft 6 in x 19 ft 8 in outrigger base

Lifting capacities greater than 425,000 lb require additional equipment.

†700,000 lb is a comparative rating

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The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
Load charts

Grove GMK6350

Hydraulic offsettable swingaway

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The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
142 ft - 197 ft main boom

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

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The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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

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Grove GMK6350

17
Hook heights shown in the working range diagram do not consider loaded boom deflection.
## Load charts

### Luffing jib

#### 70° Main boom angle

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The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
### Load charts

**Luffing jib**

#### 15.5 m - 54.3 m

- **Height:** 45 m (148 ft)
- **Capacity:** 100 t (220,400 lb)
- **Swing:** 8,7 m x 8,5 m (28.5 ft x 27.9 ft)
- **Coverage:** 360°

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

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#### 15.5 m - 54.3 m

- **Height:** 53 m (174 ft)
- **Capacity:** 100 t (220,400 lb)
- **Swing:** 8,7 m x 8,5 m (28.5 ft x 27.9 ft)
- **Coverage:** 360°

**70° Main boom angle**

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### Load charts

**Luffing jib**

**15.5 m - 54.3 m**  
(51 ft - 178 ft)

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**82° Main boom angle**

**15.5 m - 54.3 m**  
(51 ft - 178 ft)

**82° Main boom angle**

**15.5 m - 54.3 m**  
(51 ft - 178 ft)

**82° Main boom angle**

### This chart is only a guide and should not be used to operate the crane.

The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
**Load charts**

**Luffing jib**

<table>
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<tr>
<th>15.5 m - 54.3 m (51 ft - 178 ft)</th>
<th>37 m (121 ft)</th>
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<th>8.7 m x 8.5 m (28.5 ft x 27.9 ft)</th>
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**82° Main boom angle**

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**15.5 m - 54.3 m (51 ft - 178 ft)**

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The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

This chart is only a guide and should not be used to operate the crane.
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Manitowoc Cranes

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Saris  
USA  
Manitowoc  
Port Washington  
Shady Grove

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