features

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

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Main Boom
Main Boom Charts
Load Charts
Working Range Manual Offset Swingaway
Working Range Hydraulic Offset Swingaway
Hydraulic Offset Swingaway Charts
Manual Offset Swingaway Charts
**Mercedes-Benz OM 502 LA**

510 bhp (380 kW) @ 1800 rpm
1770 ft./lb. torque (2400 Nm) @ 1200 rpm

**Daimler Chrysler**

16 speed G240-16

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**TWIN-LOCK™**

Boom pinning mechanism automatically pins the sections in position using two horizontal large diameter boom pins

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**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

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**LUFFING BI-FOLD SWINGAWAY**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Main</th>
<th>Auxiliary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line length:</td>
<td>837 ft. (255 m)</td>
</tr>
<tr>
<td>Rope diameter:</td>
<td>19 mm</td>
</tr>
<tr>
<td>Line speed:</td>
<td>394 ft./min. (120 m/min)</td>
</tr>
<tr>
<td>Line pull:</td>
<td>15,700 lbs. (70 kN)</td>
</tr>
</tbody>
</table>

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

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

Carrier

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

Outrigger System
Four hydraulic single stage outrigger beams with vertical cylinders and outrigger pads, 23.6” (600 mm) square. Outriggers can be set in 3 positions:
- Full: 24.6’ (7.5 m)
- Partial: 16.7’ (5.1 m)
- Retracted: 8.2’ (2.5 m)
Independent horizontal and vertical movement controlled from each side of carrier. Electronic crane level indicators.

Engine
Mercedes-Benz OM 502 LA eight cylinder, water cooled, turbo-charged, with 510 bhp (380 kW) @ 1800 rpm. Max. torque 1,770 ft./lb. (2 400 Nm) @ 1200 rpm. Engine emissions: EUROMOT/EPA/CARB (off road)
Compression and exhaust brakes.

Fuel Tank Capacity
106 gallons (400 L).

Transmission
Daimler Chrysler, 16 speed G240-16.

Drive/Steer
10X8X10

Axles
1st axle line – steer
2nd axle line – steer (additional drive)
3rd axle line – drive/steer (disconnects for highway travel 10x8x10 drive only)
4th axle line – drive/steer (connects for all wheel steer)
5th axle line – drive/steer
Drive axles with planetary hub reduction and center mounted differential-gearing. Inter-axle and cross axle differential locks.

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

Tires
10 tires, 20.5R25

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

Brakes
Service brakes: pneumatic dual circuit acting on all wheels, anti lock prevention.
Parking brake: pneumatically operated spring loaded brake acting on axle lines 2 and 5.
Air dryer.

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

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

Maximum Speed
53 mph (85 kph)

Gradeability (Theoretical)
72% - 14.00 tires
64% - 16.00/20.5 tires

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

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

*Denotes optional equipment
### Basic Weights - lb. (kg)

<table>
<thead>
<tr>
<th></th>
<th>Axles 1-3</th>
<th>Axles 4 &amp; 5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercedes power, 20.5R25 tires, 10X6X10 drive/steer, 2nd oil cooler, outrigger pads, auxiliary hoist and driver.</td>
<td>66,528 (30 177)</td>
<td>43,415 (19 693)</td>
<td>109,943 (49 870)</td>
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<tr>
<td><strong>Additions:</strong></td>
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<td></td>
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<tr>
<td>10X6X10 drive/steer</td>
<td>772 (350)</td>
<td>22 (10)</td>
<td>794 (360)</td>
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<tr>
<td>Electric drive line retarder</td>
<td>-66 (-30)</td>
<td>727 (330)</td>
<td>661 (300)</td>
</tr>
<tr>
<td>14.00R25 spare tire with bracket</td>
<td>-340 (-154)</td>
<td>924 (419)</td>
<td>584 (285)</td>
</tr>
<tr>
<td>16.00R25 spare tire with bracket</td>
<td>-423 (-192)</td>
<td>1,140 (517)</td>
<td>715 (325)</td>
</tr>
<tr>
<td>20.5R25 spare tire with bracket</td>
<td>-487 (-221)</td>
<td>1,296 (588)</td>
<td>809 (367)</td>
</tr>
<tr>
<td>Brackets for swingaway</td>
<td>183 (83)</td>
<td>71 (32)</td>
<td>254 (115)</td>
</tr>
<tr>
<td>Hose reel for luffing swingaway</td>
<td>523 (237)</td>
<td>-203 (-92)</td>
<td>320 (145)</td>
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<tr>
<td>36 ft. - 56 ft. (11 m - 16 m) swingaway</td>
<td>3,982 (1 806)</td>
<td>-829 (-376)</td>
<td>3,153 (1 430)</td>
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<tr>
<td>Auxiliary boom nose</td>
<td>364 (165)</td>
<td>-209 (-95)</td>
<td>154 (70)</td>
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<tr>
<td>5,500 lb. (2 500 kg.) section 8 pinned to superstructure</td>
<td>-3,045 (-1 381)</td>
<td>8,556 (3 881)</td>
<td>5,512 (2 500)</td>
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<tr>
<td>5,500 lb. (2 500 kg.) section 1 stowed on carrier</td>
<td>5,020 (2 277)</td>
<td>205 (93)</td>
<td>5,225 (2 370)</td>
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<tr>
<td><strong>Substitutions:</strong></td>
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<tr>
<td>14.00R25 tires</td>
<td>-1,349 (-612)</td>
<td>-300 (-408)</td>
<td>-2,249 (-1 020)</td>
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<tr>
<td>16.00R25 tires</td>
<td>-555 (-252)</td>
<td>-371 (-168)</td>
<td>-926 (-420)</td>
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<tr>
<td><strong>Removals:</strong></td>
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<tr>
<td>Boom assembly</td>
<td>-32,522 (-14 752)</td>
<td>-1,076 (-488)</td>
<td>-33,598 (-15 240)</td>
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<tr>
<td>Front outriggers</td>
<td>-3,757 (-1 704)</td>
<td>626 (284)</td>
<td>-3,131 (-1 420)</td>
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<tr>
<td>Rear outriggers</td>
<td>1,437 (652)</td>
<td>-4,744 (-2 152)</td>
<td>-3,307 (-1 500)</td>
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<tr>
<td>Front and rear outrigger floats</td>
<td>-168 (-76)</td>
<td>-273 (-124)</td>
<td>-441 (-200)</td>
</tr>
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### Counterweight Configuration

<table>
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<tr>
<th>Counterweight Configuration lb. (kg.)</th>
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<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
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<tbody>
<tr>
<td>2,200 (1,000)</td>
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<tr>
<td>7,700 (3,500)</td>
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<td>29,700 (13,000)</td>
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<td>35,200 (16,000)</td>
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<td>40,700 (18,500)</td>
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<td>46,200 (21,000)</td>
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<tr>
<td>51,800 (23,500)</td>
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<tr>
<td>57,300 (26,000)</td>
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<tr>
<td>62,800 (28,500)</td>
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<td>88,400 (40,100)</td>
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</tr>
</tbody>
</table>

1. 5,500 lb. (2,500 kg.) Baseplate
2. 11,000 lb. (5,000 kg.) Stacking
3. 8,300 lb. (3,750 kg.) Stacking
4. 8,300 lb. (3,750 kg.) Stacking
5. 5,500 lb. (2,500 kg.) Stacking
6. 11,000 lb. (5,000 kg.) Stacking
7. 5,500 lb. (2,500 kg.) Pinned
8. 5,500 lb. (2,500 kg.) Pinned
9. 2,200 lb. (1,000 kg.) Bolted (Auxiliary Hoist or IPO)
10. 12,700 lb. (5,770 kg.) Wing
11. 12,700 lb. (5,770 kg.) Wing

Dimensions:
- Counterweight Configuration: 5.7" (1752)
- 10 & 11: 4.3" (1300)
- 9" (2730)
Trailing Boom

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

![GMK 5165](image)

**42'-197 ft. (12.8-60.0 m)**
- **2,200 lb. (1000 kg)**
- **100% Spread**
- **24'7" Spread**

<table>
<thead>
<tr>
<th>Feet</th>
<th>42'</th>
<th>58'</th>
<th>73'</th>
<th>89'</th>
<th>104'</th>
<th>119'</th>
<th>135'</th>
<th>150'</th>
<th>166'</th>
<th>181'</th>
<th>197'</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>205.0</td>
<td>199.0</td>
<td>186.0</td>
<td>143.0</td>
<td>153.0</td>
<td>141.0</td>
<td>123.0</td>
<td>113.0</td>
<td>99.0</td>
<td>87.0</td>
<td>79.0</td>
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<tr>
<td>15</td>
<td>153.0</td>
<td>141.0</td>
<td>123.0</td>
<td>113.0</td>
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<td>71.0</td>
<td>64.0</td>
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<td>102.0</td>
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<td>85.0</td>
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<td>63.0</td>
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**Pounds (thousands)**

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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.
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