FEATURES

- 20-25 tons (18-22 mt) maximum lifting capacity
- 72 ft. (21.9 m) maximum boom length
- 121 ft. (36.9 m) maximum tip height
- Three-section full power, mechanically synchronized boom with single lever control
- Side stow swing-on jib offsettable 0°, 15° or 30°
- Two-speed main and auxiliary winches
- Quick reeving boom head and hook block
- Flipper style, fully independent outriggers
- Easy entry environmental operator’s cab optimizes visibility and productivity
- RCI 500 load system Rated Capacity Indicator
- Easy to read load chart books include range diagrams
- 12-month or 2000 hours warranty, major weldments are 5-years or 10,000 hours

simple, available and cost effective™

Machines shown may have optional equipment.
TEREX CD 200 SERIES
Rough Terrain Cranes
CD 200 – 20 tons (18 mt)
CD 222 – 22 tons (20 mt)
CD 225 – 25 tons (22 mt)

61-ft. (18.6 m) or 72 ft.
(21.9 m) THREE-SECTION,
FULL-POWER,
MECHANICALLY
SYNCHRONIZED BOOM
WITH SINGLE LEVER
CONTROL
• High strength, four plate construction
  welded inside and out with embossed
  side plate holes to reduce weight and
  increase strength.
• Single boom hoist cylinder provides
  boom elevation of -4° to 76° for easier
  reeving changes and close radius
  operation.
• Quick-reeving boom head; no need to
  remove wedge from socket.
• 360° house lock standard.

ENVIRONMENTAL
OPERATOR’S CAB
• Rated Capacity Indicator (RCI) system
  including anti-two block system with
  automatic function disconnects.
• Deluxe six-way adjustable operator’s
  seat has air suspension.
• Sound and weather insulated for
  comfort.
• Large glass area provides optimum
  visibility. Tinted safety glass
  throughout.
• Low mounted cab enables easy entry
  from ground level.
• Hand mounted control levers for swing,
  boom telescope and boom hoist; foot
  control pedals for accelerator and
  service brake.

RUGGED,
EASY-TO-MANEUVER
CARRIER
• Box-type chassis construction with
  reinforcing cross members.
• Range-shift type power-shift
  transmission with integral torque
  converter; neutral start; 6 speeds
  forward 6 reverse.
• Hydraulic four-wheel power steering for
  2-wheel, 4-wheel or crab steer.
• Air over hydraulic drum type brakes on
  all four wheels
• Flipper style fully independent hydraulic
  outriggers.
• Tail swing only 9 ft. (2.74 m).
• Standard Cummins 4BA3.9 diesel
  engine.
• Standard 14.00 x 24, 20 P.R. tires.
• Tachometer and rear axle centering
  light standard.

POWERFUL, TWO-SPEED
WINCHES
• 364 fpm (111 m/min) maximum line
  speed. 12,510 lbs. (5674 kg) maximum
  line pull. Single lever control.
• Integral automatic brake.
• Grooved drum, tapered drum flanges
  for improved rope spooling.

HIGH CAPACITY, DEPENDABLE
HYDRAULIC SYSTEM
• Three gear pumps driven off the
  transmission. Combined system
  capability is 91 gpm (344 lpm).
• Hydraulic reservoir with 94 gal.
  (355 l) capacity and full flow oil
  filtration system.

OPTIONS INCLUDE:
• 26 ft. or 26 to 43 ft. (7.92 or 7.92 to
  13.11 m) swing-on jib. Both offset
  0°, 15° or 30°.
• Auxiliary winch with rope.
• Heater, defroster, air conditioner.
• Cold weather starting aid.
• 20.5 x 25, 20 P.R. tires.
• CAT 3116 DIT diesel engine.

For more information, product demonstration, or details on purchase, lease and rental
plans, please contact your local Terex Cranes Distributor.

We reserve the right to amend these specifications at any time without notice. The only
warranty applicable is our standard written warranty applicable to the particular product
and sale. We make no other warranty, expressed or implied.

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10U100T34
STANDARD BOOM EQUIPMENT

BOOM
26-61 ft. (8.05-18.72 m), three section full power, mechanically synchronized boom. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third section. Utilizes high-strength four plate construction welded inside and out with embossed side plate holes to reduce weight and increase strength. Boom sections are supported on anti-friction slide pads. Single boom hoist cylinder provides -4 to 76 degrees of boom elevation. All cylinders are equipped with integral hold valves. Maximum tip height is 68 ft. (20.78 m).

BOOM HEAD
Welded to third section of boom. Four or five load sheaves and two idler sheaves mounted on heavy duty anti-friction bearings. Quick reeving boom head. Provisions made for side-stow jib mounting.

OPTIONAL BOOM EQUIPMENT

MAIN BOOM
30-72 ft. (9.23-22.19 m), three section full power, mechanically synchronized boom. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third section. Utilizes high-strength four plate construction welded inside and out with embossed side plate holes to reduce weight and increase strength. Boom sections are supported on anti-friction slide pads. Single boom hoist cylinder provides -4 to 76 degrees of boom elevation. All cylinders are equipped with integral hold valves. Maximum tip height is 79 ft. (24.23 m).

JIBS
26 ft. (7.93 m) side stow swing-on one-piece lattice type jib. Single sheave mounted on anti-friction bearing. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 103 ft. (31.51 m).

26-43 ft. (7.93-13.11 m) side stow swing-on lattice type jib. Single sheave mounted on anti-friction bearing. Jib is extendible to 43 ft. (13.11 m) by means of a 17 ft. (5.18 m) manual pull-out tip section, roller supported for ease of extension. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 121 ft. (36.73 m).

AUXILIARY BOOM HEAD
Removable auxiliary boom head has single sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom peak only. Removal is not required for jib use.

HOOK BLOCK
Two, three, or four metallic sheaves on anti-friction bearings with hook and heavy duty hook latch. Quick reeving design does not require removal of wedge and socket from rope.

HOOK & BALL
7 ton (6.3 mt) top swivel ball with hook and heavy duty hook latch.
STANDARD UPPERSTRUCTURE EQUIPMENT

UPPERSTRUCTURE FRAME
All welded one-piece structure fabricated with high tensile strength alloy steel. Counterweight is bolted to frame.

TURNTABLE CONNECTION
Swing bearing is a single row, ball type, with external teeth. The swing bearing is bolted to the revolving upperstructure and welded to the carrier frame.

SWING
A hydraulic motor drives a double planetary reduction gear for precise and smooth swing function. Swing motor is equipped with a counterbalance valve. Swing speed (no load) is 3.0 rpm.

SWING BRAKE
Heavy duty multiple disc swing brake is spring set and air released from operator's cab. Control is by electrical switch. An air operated two position house lock is standard.

OPTIONAL EQUIPMENT
Auxiliary Winch • 360° House Lock • Rotating Beacon • Work lights • 3rd Wrap indicator

STANDARD CARRIER EQUIPMENT

OPERATOR'S CAB
Environmental cab with all steel construction, large glass area provides optimum visibility, tinted safety glass throughout, and rubber floor matting. Cab is mounted low to enable entry from ground level. The cab has a hinged door on the left side and sliding windows in the door, on the right side and rear. Acoustical foam padding insulates against sound and weather. The deluxe six-way adjustable operator's seat is fully adjustable and equipped with air suspension.

RATED CAPACITY INDICATOR
Rated Capacity Indicator with visual and audible warning system and automatic function disconnects. Display includes actual load and percentage of allowable load registered by bar graph. Anti-two block system includes audio/visual warning and automatic function disconnects.

CONTROLS
All control levers and pedals are positioned for efficient operation. Hand operated control levers include swing, telescope, boom hoist, winch(s), shift, vernier adjustable hand throttle. Switches include ignition, range shift, steer mode, outrigger controls, travel lights, parking brake, swing brake, and two position house lock. Foot control pedals include service brakes and accelerator.

INSTRUMENTATION AND ACCESSORIES
In-cab gauges include bubble level, engine oil pressure, fuel level, engine temperature, voltmeter, transmission temperature, and transmission oil pressure. Indicators include high water temperature/low oil pressure/high transmission temperature audio/visual warning, low coolant audio/visual warning, hoist drum rotation indicator, and Rated Capacity Indicator. Accessories include fire extinguisher, light package including headlights, tail lights, brake lights, directional signals, four-way hazard flashers, and back-up lights with audio pulsating back-up alarm; windshield washer/wiper and skylight wiper; R.H. and L.H. rear view mirrors; dash lights; and seat belt.

HYDRAULIC CONTROL VALVES
Valves are mounted in the carrier and are easily accessible. Valves are mechanically operated and include one four spool valve for boom elevation, telescope, main winch, and future installation of auxiliary winch; and one single spool valve for swing. High pressure regeneration feature in telescope valve provides 2-speed boom extension. Quick disconnects are provided for ease of installation of pressure check gauges.

CARRIER CHASSIS
Chassis is Terex designed with four-wheel drive and four-wheel steer (4x4x4). Has box-type construction with reinforcing cross members, a precision machined turntable mounted plate and integrally welded outrigger boxes. Decking has skid-resistant surfaces, includes access steps and handles on left and right sides. Four interchangeable fenders are installed standard.

AXLES AND SUSPENSION
Rear axle is a planetary drive/steer type with automatic oscillation lockouts that engage when the superstructure is swung 10° in either direction. Front axle is a planetary drive/steer type, rigid mounted to the frame for increased stability.

SERVICE BRAKES
Air over hydraulic drum type brakes on all four wheels; 17" x 4" (43.18 x 10.2 cm) drum brakes.

PARKING BRAKE
Transmission mounted spring-set, air released external caliper disk type emergency/parking brake sets automatically when ignition is turned off or in the event of loss of system air.

STEERING
Hydraulic four-wheel power steering for two-wheel, four wheel, or crab steer is easily controlled by steering wheel.

Turning radius to center or outside tire.

<table>
<thead>
<tr>
<th></th>
<th>(standard tires)</th>
<th>(optional tires)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-wheel:</td>
<td>19' 3.44&quot; (5.88 m)</td>
<td>19' 5&quot; (5.92 m)</td>
</tr>
<tr>
<td>Four-wheel:</td>
<td>34' 8.81&quot; (10.59 m)</td>
<td>34' 10.38&quot; (10.63 m)</td>
</tr>
</tbody>
</table>
STANDARD CARRIER EQUIPMENT (continued)

TRANSMISSION
Range-shift type power-shift transmission with integral torque converter has neutral safety start, 6 speeds forward, and 6 speeds reverse. Automatic pulsating back-up alarm.

WHEELS & TIRES
Disc type wheels with full tapered bead seat rim, 121 in. (3.07 m) wheel base.

TIRES
Standard: 14.00 x 24, 20 P.R.
Optional: 20.5 x 25, 20 P.R.

OUTRIGGERS
Fliper style fully independent hydraulic outriggers extend 14 ft. 6 in. (4.42 m) centerline to centerline. Steel floats are swivel connected. Each has an area of 221 in² (1429 cm²), do not need to be removed for transport. Complete controls and sight leveling bubble are located in the operator's cab.

OPTIONAL EQUIPMENT
Cold Weather Starting Aid • Immersion Heater • Rear Axle Centering Light • Independent Rear Wheel Steer • Pintle Hook • Clearance Lights • Tachometer • Air Conditioner • Front Mounted Winch • 20,000 lbs. (9072 kg) • Hot Water Heater

HYDRAULIC SYSTEM

HYDRAULIC PUMPS
Three gear type pumps, one single and two in tandem, with a manual pump disconnect, driven off the transmission. Combined system capacity is 91 gpm (347.4 lpm).

Main and Auxiliary Winch Pump
40.6 gpm (153.7 lpm) @ 3,500 psi (246.1 kg/cm²)

Boom Hoist, Telescope Pump
30.2 gpm (114.3 lpm) @ 3,500 psi (246.1 kg/cm²)

Power Steering, Outrigger and Swing Pump
21 gpm (79.5 lpm) @ 2,500 psi (175 kg/cm²)

FILTRATION
Full flow oil filtration system with bypass protection includes a removable 60 mesh (250 micron) suction screen-type filter and 5 micron replaceable return line filter.

HYDRAULIC RESERVOIR
All steel, welded construction with internal baffles and diffuser. Provides easy access to filters and is equipped with an external sight level gauge. The hydraulic tank is pressurized to aid in keeping out contaminants and in reducing potential pump cavitation. Capacity is 91 gal (344 liters). Swing-away hydraulic oil cooler is standard.

MAIN WINCH SPECIFICATIONS
Hydraulic winch with bent axis motor and planetary reduction provides 2-speed operation with equal speeds for power up and down. Winch is equipped with an integral automatic brake and a grooved drum with tapered flanges for improved rope spooling.

PERFORMANCE
Max. line speed (no load)

<table>
<thead>
<tr>
<th></th>
<th>LO-RANGE</th>
<th>HI-RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>First layer</td>
<td>157 fpm (47.8 m/min)</td>
<td>252 fpm (76.8 m/min)</td>
</tr>
<tr>
<td>Fifth layer</td>
<td>227 fpm (69.2 m/min)</td>
<td>364 fpm (110.9 m/min)</td>
</tr>
<tr>
<td>Max. line pull-first layer</td>
<td>12,510 lbs (5674 kg)</td>
<td>7,296 lbs (3310 kg)</td>
</tr>
<tr>
<td>Max. line pull-fifth layer</td>
<td>8,662 lbs (3929 kg)</td>
<td>5,052 lbs (2291 kg)</td>
</tr>
<tr>
<td>Permissible line pull</td>
<td>9,000 lbs (4082 kg)</td>
<td></td>
</tr>
</tbody>
</table>

DRUM DIMENSIONS

10.62 in (270 mm) drum diameter
17.55 in (446 mm) length
18.0 in (457 mm) flange dia.
16 mm x 137.2 mm cable
16 mm (6.1) drum
16 mm x 137.2 mm cable
right regular lay, preformed. Min. breaking strength 17.9 tons (16.2 mt).

DRUM CAPACITY
Max. Storage: 570 ft (173.7 m)
6th layer not a working layer
Max. Usable: 455 ft (139.7 m)*

*Based on minimum flange top layer to comply with ANSI B30.5

OPTIONAL AUXILIARY WINCH SPECIFICATIONS
(Same as main winch)

PERFORMANCE
(Same as main winch)

DRUM DIMENSIONS AND CAPACITY
(Same as main winch)

OPTIONAL HOIST LINE
MAIN WINCH AND OPTIONAL AUXILIARY WINCH – 7/16 in (16 mm) rotation resistant compacted strand 18 x 19 or 19 x 19. Min breaking strength 22.6 tons (20.6 mt).

ENGINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Make and Model</th>
<th>Cummins 4BA3.9 (Std.)</th>
<th>Caterpillar 3116 DIT (Opt.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>4 cylinder</td>
<td>6 cylinder</td>
</tr>
<tr>
<td>Bore and Stroke</td>
<td>4.02 x 4.72 in. (102 x 120 mm)</td>
<td>4.12 x 5.0 in. (105 x 127)</td>
</tr>
<tr>
<td>Displacement</td>
<td>239 cu. in. (3.91)</td>
<td>402 cu in (6.1)</td>
</tr>
<tr>
<td>Max. Gross HP</td>
<td>130 hp (97 kW) @ 2500 rpm</td>
<td>140 hp (105 kW) @ 2400 rpm</td>
</tr>
<tr>
<td>Max. Gross Torque</td>
<td>394 lb-ft. (499 N-m) @ 1200 rpm</td>
<td>426 lb-ft. (578 N-m) @ 1400 rpm</td>
</tr>
<tr>
<td>Air Filter</td>
<td>dry type</td>
<td>dry type</td>
</tr>
<tr>
<td>Electrical System</td>
<td>12 volt</td>
<td>12 volt</td>
</tr>
<tr>
<td>Alternator</td>
<td>112 amp</td>
<td>115 amp</td>
</tr>
<tr>
<td>Battery</td>
<td>(2) 12V-1600CCA</td>
<td>(2) 12V-1600CCA</td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>50 gal (1891)</td>
<td>50 gal (1891)</td>
</tr>
</tbody>
</table>

PERFORMANCE (Standard Engine)

<table>
<thead>
<tr>
<th>Transmission Range</th>
<th>Gear</th>
<th>Maximum Speed</th>
<th>Maximum Traction Effort</th>
<th>Gradeability @ Stall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>1</td>
<td>1.9 mph (3.1 km/h)</td>
<td>40,510 lbs.</td>
<td>150.4%</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>3.7 mph (6.6 km/h)</td>
<td>21,372 kg</td>
<td>45.6%</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>11.2 mph (18.0 km/h)</td>
<td>6,869 lbs.</td>
<td>12.5%</td>
</tr>
<tr>
<td>High</td>
<td>1</td>
<td>4.2 mph (6.8 km/h)</td>
<td>18,576 lbs.</td>
<td>38.6%</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>8.3 mph (13.4 km/h)</td>
<td>9,185 lbs.</td>
<td>17.6%</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>24.5 mph (39.4 km/h)</td>
<td>3,042 lbs.</td>
<td>4.4%</td>
</tr>
</tbody>
</table>
**GENERAL DIMENSIONS**

**NOTES:**
1. Dimensions given assume the boom is fully retracted in travel position.
2. Minimum ground clearance under:
   - transmission: 19.62" (0.50 m)
   - axle bowls: 18.12" (0.46 m)
   - tie rods: 19.36" (0.49 m)
   - Track Width: 6'7.9" (2.03 m)
   - Overall Width: 8'-0" (2.44 m)

### WEIGHS & AXLE LOADS

<table>
<thead>
<tr>
<th></th>
<th>GROSS WEIGHT LBS.</th>
<th>UPPER FACING FRONT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FRONT</td>
<td>REAR</td>
</tr>
<tr>
<td><strong>Basic Crane with 61' Boom, 7,200 lb. (3266 kg)</strong></td>
<td>42,534</td>
<td>20,480</td>
</tr>
<tr>
<td><strong>Counterweight, 14.00 x 24 - 20 PR Tires</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Add Options:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26'43' (7.92-13.10 m) Swing-on Jib (61' Boom)</td>
<td>+ 1,490</td>
<td>+ 1,944</td>
</tr>
<tr>
<td>26'43' (7.92-13.10 m) Swing-on Jib (72' Boom)</td>
<td>+ 1,490</td>
<td>+ 2,489</td>
</tr>
<tr>
<td>Auxiliary Boom Head (61' Boom)</td>
<td>+ 100</td>
<td>+ 257</td>
</tr>
<tr>
<td>Auxiliary Boom Head (72' Boom)</td>
<td>+ 100</td>
<td>+ 290</td>
</tr>
<tr>
<td>Auxiliary Winch with Wire Rope, Controls, etc.</td>
<td>+ 115</td>
<td>+ 25</td>
</tr>
<tr>
<td>21 T (22.6 mt) 2-Sheave Hook Block</td>
<td>+ 682</td>
<td>+ 1,155</td>
</tr>
<tr>
<td>7.0 T Hook and Ball (In tool box)</td>
<td>+ 240</td>
<td>+ 81</td>
</tr>
<tr>
<td><strong>Pintle Hook:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>+ 45</td>
<td>+ 67</td>
</tr>
<tr>
<td>Rear</td>
<td>+ 45</td>
<td>- 25</td>
</tr>
<tr>
<td><strong>Substitute:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>72' (21.96 m) Full Power 3-Section Boom</td>
<td>+ 1,124</td>
<td>+ 2,943</td>
</tr>
<tr>
<td>20.5 x 25 - 24PR Tires</td>
<td>+ 1,402</td>
<td>+ 701</td>
</tr>
</tbody>
</table>

**NOTE:** Weights are for Factory supplied equipment and subject to 2% variation due to manufacturing tolerances.

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY APPLICABLE TO THE PARTICULAR PRODUCT AND SALE. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.

TEREX CRANES
Waverly, Iowa

106 12th Street S.E. • Waverly, IA 50677-9466 USA
(319) 352-3920 • FAX: (319) 352-5727

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Range Diagram (26'–61' boom)

Range Diagram (30'–72' boom)

CRANE WORKING POSITIONS
WITH OUTRIGGERS

360°
OVER
FRONT

ST. OVER
FRONT

360°

OUT
BOOM

CENTER OF
ROTATION

WITHOUT OUTRIGGERS

360°

OUT
BOOM

CENTER OF
ROTATION

Dimensions are for largest factory furnished hook block and hook & ball with anti-two block activated.

HOOK BLOCK WEIGHTS
Hook & Ball .................. 239 Lbs.
Hook Block (2 Sheave) ........ 680 Lbs.
Hook Block (3 Sheave) ........ 660 Lbs.
Hook Block (4 Sheave) ........ 660 Lbs.
### Lifting Capacities – Pounds

#### ON OUTRIGGERS

<table>
<thead>
<tr>
<th>Load Radius (ft)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>56.7 50,000°</td>
<td>50,000°</td>
<td>56.7 45,300°</td>
<td>45,300°</td>
<td>56.7 42,900°</td>
<td>42,900°</td>
<td>56.7 40,900°</td>
<td>40,900°</td>
</tr>
<tr>
<td>12</td>
<td>53.3 44,000°</td>
<td>44,000°</td>
<td>53.3 40,900°</td>
<td>40,900°</td>
<td>53.3 36,800°</td>
<td>36,800°</td>
<td>53.3 32,100°</td>
<td>32,100°</td>
</tr>
<tr>
<td>15</td>
<td>44.6 36,800°</td>
<td>36,800°</td>
<td>44.6 32,100°</td>
<td>32,100°</td>
<td>44.6 30,300°</td>
<td>30,300°</td>
<td>44.6 27,200°</td>
<td>27,200°</td>
</tr>
<tr>
<td>20</td>
<td>23.9 25,600°</td>
<td>25,600°</td>
<td>23.9 22,100°</td>
<td>22,100°</td>
<td>23.9 20,500°</td>
<td>20,500°</td>
<td>23.9 18,200°</td>
<td>18,200°</td>
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<tr>
<td>25</td>
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<tr>
<td>40</td>
<td>24.7 15,100°</td>
<td>15,100°</td>
<td>24.7 10,800°</td>
<td>10,800°</td>
<td>24.7 8,600°</td>
<td>8,600°</td>
<td>24.7 6,800°</td>
<td>6,800°</td>
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<tr>
<td>45</td>
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<td>**</td>
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<td>**</td>
<td>**</td>
</tr>
</tbody>
</table>

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE**

<table>
<thead>
<tr>
<th>Load Radius (ft)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
<th>Load over Front (lb)</th>
<th>Load over 360° (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.9</td>
<td>22,800°</td>
<td>18,000°</td>
<td>21.9 15,900°</td>
<td>15,900°</td>
<td>21.9 11,000°</td>
<td>11,000°</td>
<td>21.9 8,800°</td>
<td>8,800°</td>
</tr>
</tbody>
</table>

#### ON TIRES

<table>
<thead>
<tr>
<th>Radii (ft)</th>
<th>Max 14.00 X 24-24PR</th>
<th>Pick &amp; Carry 2.5 MPH</th>
<th>Max 20.50 X 25-25PR</th>
<th>Pick &amp; Carry 2.5 MPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>30</td>
<td>19,700°</td>
<td>22,400°</td>
<td>19,700°</td>
</tr>
<tr>
<td>12</td>
<td>30</td>
<td>17,900°</td>
<td>20,500°</td>
<td>17,900°</td>
</tr>
<tr>
<td>15</td>
<td>30</td>
<td>12,700°</td>
<td>15,600°</td>
<td>12,700°</td>
</tr>
<tr>
<td>20</td>
<td>30</td>
<td>6,000°</td>
<td>7,600°</td>
<td>6,000°</td>
</tr>
<tr>
<td>25</td>
<td>50</td>
<td>4,500°</td>
<td>5,800°</td>
<td>4,500°</td>
</tr>
<tr>
<td>30</td>
<td>50</td>
<td>3,300°</td>
<td>4,400°</td>
<td>3,300°</td>
</tr>
<tr>
<td>35</td>
<td>50</td>
<td>2,500°</td>
<td>3,300°</td>
<td>2,500°</td>
</tr>
<tr>
<td>40</td>
<td>61</td>
<td>1,800°</td>
<td>2,700°</td>
<td>1,800°</td>
</tr>
<tr>
<td>45</td>
<td>61</td>
<td>1,300°</td>
<td>2,100°</td>
<td>1,300°</td>
</tr>
<tr>
<td>50</td>
<td>61</td>
<td>2,400°</td>
<td>3,000°</td>
<td>2,400°</td>
</tr>
<tr>
<td>55</td>
<td>61</td>
<td>1,900°</td>
<td>2,500°</td>
<td>1,900°</td>
</tr>
</tbody>
</table>

**Recommended Tire Pressure**

- **Stationary**: 21/2 MPH, Travel: 0 MPH
- **Tire Size**: 14/00 X 24-24 PR, 115 PSI; 16/00 X 25-28 PR, 115 PSI; 20/50 X 25-25 PR, 95 PSI

**MAXIMUM PERMISSIBLE HOIST LINE LOAD**

- Line Parts: 1, 2, 3, 4, 5, 6, 7
- Hook Block: D, 3, 2-3, 1-4, 2-3-4

**SIDE STOW JIB ON OUTRIGGERS**

<table>
<thead>
<tr>
<th>Load over 30° Offset (lb)</th>
<th>Load over 30° Offset (lb)</th>
<th>Load over 30° Offset (lb)</th>
<th>Load over 30° Offset (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>28.7</td>
<td>28.7</td>
<td>28.7</td>
</tr>
<tr>
<td>75</td>
<td>35.2</td>
<td>35.2</td>
<td>35.2</td>
</tr>
<tr>
<td>75</td>
<td>43.6</td>
<td>43.6</td>
<td>43.6</td>
</tr>
<tr>
<td>75</td>
<td>53.2</td>
<td>53.2</td>
<td>53.2</td>
</tr>
<tr>
<td>75</td>
<td>63.9</td>
<td>63.9</td>
<td>63.9</td>
</tr>
<tr>
<td>75</td>
<td>75.6</td>
<td>75.6</td>
<td>75.6</td>
</tr>
<tr>
<td>75</td>
<td>86.3</td>
<td>86.3</td>
<td>86.3</td>
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<tr>
<td>75</td>
<td>97.0</td>
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<td>97.0</td>
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<tr>
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<td>107.7</td>
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<td>107.7</td>
</tr>
<tr>
<td>75</td>
<td>118.4</td>
<td>118.4</td>
<td>118.4</td>
</tr>
<tr>
<td>75</td>
<td>129.1</td>
<td>129.1</td>
<td>129.1</td>
</tr>
<tr>
<td>75</td>
<td>139.8</td>
<td>139.8</td>
<td>139.8</td>
</tr>
</tbody>
</table>

**Notes For Jib Capabilities**

- For Jib operations, use the capacity of the next lower jib angle.
- Hook Block: D, 3, 2-3, 1-4, 2-3-4

- Wire Rope: 5/8" Rotation Resistant Compacted Strand, 18 X 19 OR 19 X 19 Minimum Breaking Strength: 22.7 Tons

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**Notes For On Tire Capacities**

- A. For Pick and Carry Operations, boom must be centered over the front of the machine.
- B. The load should be obscured from swing.
- C. Speed: 1 mph maximum, except 7 tons (6.1 m) in a 30 minute period and not exceeding 1.0 mph (1.6 kph).
- D. Refer to General Notes for additional information.
- E. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires used to ensure stability.
### Lifting Capacities – Pounds

**(30' - 72' boom)**

#### ON OUTRIGGERS

| LOAD RADIUS (FT) | LOADED OVER 300° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° | LOADED OVER 360° |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE**

<table>
<thead>
<tr>
<th>LOAD RADIUS (FT)</th>
<th>LOADED OVER 300°</th>
<th>LOADED OVER 300°</th>
<th>LOADED OVER 300°</th>
<th>LOADED OVER 300°</th>
<th>LOADED OVER 300°</th>
<th>LOADED OVER 300°</th>
<th>LOADED OVER 300°</th>
<th>LOADED OVER 300°</th>
</tr>
</thead>
</table>

#### ON TIRES

<table>
<thead>
<tr>
<th>RADIUS (FT)</th>
<th>14.00 X 24-24PR</th>
<th>20.50 X 25-25PR</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
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<tr>
<td>20</td>
<td></td>
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<td>35</td>
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<tr>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MAXIMUM PERMISSIBLE HOIST LINE LOAD**

<table>
<thead>
<tr>
<th>LINE PARTS</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX LOAD</td>
<td>9,080</td>
<td>18,160</td>
<td>27,240</td>
<td>36,320</td>
<td>45,400</td>
<td>54,500</td>
<td>63,600</td>
</tr>
<tr>
<td>BOOM HEAD</td>
<td>2</td>
<td>3-2</td>
<td>2-3</td>
<td>1-4</td>
<td>2-3-4</td>
<td>2-3-4</td>
<td>2-3-4</td>
</tr>
<tr>
<td>HOOK BLOCK</td>
<td>D</td>
<td>3</td>
<td>3-2</td>
<td>1-4</td>
<td>2-3-4</td>
<td>2-3-4</td>
<td>2-3-4</td>
</tr>
</tbody>
</table>

**SIDE STOW JIB ON OUTRIGGERS**

<table>
<thead>
<tr>
<th>LOADED ANGLE (DEG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° MOTHER JIB</td>
</tr>
<tr>
<td>15° OFFSET</td>
</tr>
<tr>
<td>30° OFFSET</td>
</tr>
<tr>
<td>0° MOTHER JIB</td>
</tr>
<tr>
<td>15° OFFSET</td>
</tr>
<tr>
<td>30° OFFSET</td>
</tr>
</tbody>
</table>

**NOTES FOR JIB CAPACITIES:**

F: For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.

G: For boom angles not shown, use the capacity of the next lower boom angle.

H: Listed ratings are for fully extended main boom only.

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**COUNTERWEIGHT:**

W/AUX. WINCH 6,100 LBS.
W/O AUX. WINCH 7,200 LBS

**STABILITY PCT.:**

ON OUTRIGGERS 85%
ON TIRES 75%

**PCS CLASS:**

10-62
GENERAL

1. Rated loads as shown on Lift Charts pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.

2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the Operator’s Parts and Safety Manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through your distributor.

3. These warnings do not constitute all of the operating conditions for the crane. The operator and job-site supervision must read the OPERATORS MANUAL, CIMA SAFETY MANUAL, APPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDARDS FOR CRANES.

4. This crane and its load ratings are in accordance with POWER CRANE & SHOVEL ASSOCIATION, STANDARD NO. 4, SAE CRANE LOAD STABILITY TEST CODE J765A. SAE METHOD OF TEST FOR CRANE STRUCTURE J1063, AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HOISTS, ASME/ANSI B30.5.

DEFINITIONS

1. LOAD RADIUS – The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.

2. LOADED BOOM ANGLE – It is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. The boom angle before loading should be greater to account for deflections. The loaded boom angle combined with boom length give only an approximation of the operating radius.

3. WORKING AREA – Areas measured in a circular arc about the centerline of rotation as shown in the diagram.

4. FREELY SUSPENDED LOAD – Load hanging free with no direct external force applied except by the hoist rope.

5. SIDE LOAD – Horizontal force applied to the lifted load either on the ground or in the air.

6. NO LOAD STABILITY LIMIT – The stability limit radius shown on the range diagrams is the radius beyond which it is not permitted to position the boom, when the boom angle is less than the minimum shown on the applicable load chart, because the machine can overturn without any load.

SET-UP

1. Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.

2. Crane load ratings on outriggers are based on all outrigger beams being fully extended or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires free of the supporting surface.

3. Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressures in tires. Consult Operator’s Manual for precautions.

4. Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.

5. Consult appropriate section of the Operator’s and Service Manual for more exact description of hoist line reeving.

6. The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground.

7. Properly maintained wire rope is essential for safe crane operation. Consult Operator’s Manual for proper maintenance and inspection requirements.

8. When spin-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.

OPERATION:

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.

2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.

3. Do not operate at longer radii than those listed on the applicable load rating chart (cross-hatched areas shown on range diagrams).

4. The boom angles shown on the Capacity Chart give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.

5. Power telescoping boom sections must be extended equally.

6. Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted. When lifting over the jib the weight of any hook block, slings, and auxiliary lifting devices at the boom head must be added to the load. When jibs are erected but unused add two (2) times the weight of any hook block, slings, and auxiliary lifting devices at the jib head to the load.

7. Rated loads do not exceed 65% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J765a. Structural strength ratings in chart are indicated with an asterisk (*).

8. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.

9. The user shall operate at reduced ratings to allow for adverse job conditions, such as: Soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc. (side pull on boom or jib is hazardous). Derating of the crane lifting capacity is required when wind speed exceeds 20 MPH, the center of the lifted load must never be allowed to move more than 3' feet off the centerline of the base boom section due to the effects of wind, inertia, or any combination of the two.

**Use 2 feet off the centerline of the base boom for a two section boom, 3 feet for a three section boom, or 4 feet for a four section boom.”

10. The maximum load which can be telescoped is not definable, because of variations in loadings and crane maintenance, but it is permissible to attempt retraction and extension if load ratings are not exceeded.

11. Load ratings are dependent upon the crane being maintained according to manufacturer’s specifications.

12. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.

13. FOR TRUCK ONLY: 360° capacities apply only to machines equipped with a front outrigger jack and all five (5) outrigger jacks properly set. If the front (5th) outrigger jack is not properly set, the work area is restricted to the over side and over rear areas as shown on the Crane Working Positions diagram. Use the 360° load ratings in the overside work.