FEATURES:

- **Engine** – Emits at levels equivalent to U.S. EPA Tier III and EU Stage IIIA emission standard. The C4.4 offers increased performance and reliability while reducing fuel consumption and sound levels.

- **Environmentally Responsible Design** – Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient.

- **Hydraulics** – The state of the art load-sensing hydraulic system combined with a separate dedicated swing pump provides fast cycle times, increased lift capacity and high bucket and stick forces. This combination maximizes your productivity in any job.

- **Serviceability** – For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points.

- **Operator Comfort** – The operator station maximizes comfort while increasing safety. Safety is enhanced by the new color monitor and standard rear-mounted camera.

### Specifications

#### Engine

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat® C4.4 with ACERT™ Technology</td>
</tr>
<tr>
<td>Ratings</td>
<td>2,000 rpm</td>
</tr>
<tr>
<td>Gross Power</td>
<td>102 kW (139 hp)</td>
</tr>
<tr>
<td>ISO 9249</td>
<td>95 kW (129 hp)</td>
</tr>
<tr>
<td>80/1269/EEC</td>
<td>95 kW (129 hp)</td>
</tr>
<tr>
<td>Bore</td>
<td>105 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>127 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>4.4 L</td>
</tr>
<tr>
<td>Cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Maximum Torque</td>
<td>550 N·m</td>
</tr>
</tbody>
</table>

- All engine horsepower (hp) are metric.
- Emits at levels equivalent to U.S. EPA Tier III and EU Stage IIIA emission standard.
- Full engine net power up to 3000 m altitude.

#### Hydraulic System

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Capacity</td>
<td>95 L</td>
</tr>
<tr>
<td>System</td>
<td>180 L</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td></td>
</tr>
<tr>
<td>Implement Circuit</td>
<td></td>
</tr>
<tr>
<td>Normal</td>
<td>350 bar</td>
</tr>
<tr>
<td>Heavy Lift</td>
<td>375 bar</td>
</tr>
<tr>
<td>Travel Circuit</td>
<td>350 bar</td>
</tr>
<tr>
<td>Auxiliary Circuit</td>
<td></td>
</tr>
<tr>
<td>High Pressure</td>
<td>350 bar</td>
</tr>
<tr>
<td>Medium Pressure</td>
<td>185 bar</td>
</tr>
<tr>
<td>Swing Mechanism</td>
<td>350 bar</td>
</tr>
<tr>
<td>Maximum Flow</td>
<td></td>
</tr>
<tr>
<td>Implement/Travel Circuit</td>
<td>190 L/min</td>
</tr>
<tr>
<td>Auxiliary Circuit</td>
<td></td>
</tr>
<tr>
<td>High Pressure</td>
<td>190 L/min</td>
</tr>
<tr>
<td>Medium Pressure</td>
<td>40 L/min</td>
</tr>
<tr>
<td>Swing Mechanism</td>
<td>80 L/min</td>
</tr>
</tbody>
</table>

#### Weights

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA Boom*</td>
<td>Rear Dozer Only 13,800 kg</td>
</tr>
<tr>
<td></td>
<td>Front Blade, Rear Outriggers 14,750 kg</td>
</tr>
<tr>
<td>One-Piece Boom*</td>
<td>Rear Dozer Only 13,500 kg</td>
</tr>
<tr>
<td></td>
<td>Front Blade, Rear Outriggers 14,450 kg</td>
</tr>
<tr>
<td>Sticks</td>
<td></td>
</tr>
<tr>
<td>Short (2000 mm)</td>
<td>370 kg</td>
</tr>
<tr>
<td>Medium (2300 mm)</td>
<td>390 kg</td>
</tr>
<tr>
<td>Dozer Blade</td>
<td>750 kg</td>
</tr>
<tr>
<td>Outriggers</td>
<td>960 kg</td>
</tr>
<tr>
<td>Counterweight</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>2900 kg</td>
</tr>
<tr>
<td>Optional</td>
<td>3300 kg</td>
</tr>
</tbody>
</table>

* Machine weight with medium stick, 3300 kg counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration.
### Transmission
- **Forward/Reverse**
  - 1st Gear: 9 km/h
  - 2nd Gear: 37 km/h
- **Creeper Speed**
  - 1st Gear: 3 km/h
  - 2nd Gear: 13 km/h
- **Drawbar Pull**: 76 kN
- **Maximum Gradeability**: 58%

### Undercarriage
- **Ground Clearance**: 370 mm
- **Maximum Steering Angle**: 35°
- **Oscillation Axle Angle**: ± 9°
- **Minimum Turning Radius**
  - Outside of Tire: 6200 mm
  - End of VA Boom: 6700 mm
  - End of One-Piece Boom: 8100 mm

### Swing Mechanism
- **Swing Speed**: 10.5 rpm
- **Swing Torque**: 35 kN·m

### Tires
- **Standard**
  - 10.00-20 (dual pneumatic)

### Sound Levels
- **Exterior Sound**
  - The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 102 dB(A).

### Service Refill Capacities
- **Fuel Tank**: 235 L
- **Cooling**: 31 L
- **Engine Crankcase**: 8 L
- **Rear Axle Housing (differential)**: 11.2 L
- **Front Steering Axle (differential)**: 9 L
- **Final Drive**: 2.4 L
- **Powershift Transmission**: 2.5 L

### Dimensions (All dimensions are approximate.)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>VA Boom 2000</th>
<th>VA Boom 2300</th>
<th>One-Piece Boom 2000</th>
<th>One-Piece Boom 2300</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Stick Length</td>
<td>mm</td>
<td>3120</td>
<td>3120</td>
<td>3120</td>
</tr>
<tr>
<td>2 Shipping Height</td>
<td>mm</td>
<td>8310</td>
<td>8300</td>
<td>8090</td>
</tr>
<tr>
<td>3 Support Point</td>
<td>mm</td>
<td>3820</td>
<td>3470</td>
<td>3480</td>
</tr>
<tr>
<td>4 Tail Swing Radius</td>
<td>mm</td>
<td>2060</td>
<td>2060</td>
<td>2060</td>
</tr>
<tr>
<td>5 Counterweight Clearance</td>
<td>mm</td>
<td>1230</td>
<td>1230</td>
<td>1230</td>
</tr>
<tr>
<td>6 Cab Height</td>
<td>mm</td>
<td>3120</td>
<td>3120</td>
<td>3120</td>
</tr>
</tbody>
</table>
## Working Ranges

<table>
<thead>
<tr>
<th></th>
<th>VA Boom</th>
<th>One-Piece Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick Length</td>
<td>mm</td>
<td>2000 2300</td>
</tr>
<tr>
<td>1 Digging Height</td>
<td>mm</td>
<td>9670 9820</td>
</tr>
<tr>
<td>2 Dump Height</td>
<td>mm</td>
<td>6900 7060</td>
</tr>
<tr>
<td>3 Digging Depth</td>
<td>mm</td>
<td>5160 5450</td>
</tr>
<tr>
<td>4 Vertical Wall Digging Depth</td>
<td>mm</td>
<td>3500 3600</td>
</tr>
<tr>
<td>5 Depth 2.5 m Straight Clean-Up</td>
<td>mm</td>
<td>4920 5230</td>
</tr>
<tr>
<td>6 Reach</td>
<td>mm</td>
<td>8670 8920</td>
</tr>
<tr>
<td>7 Reach at Ground Level</td>
<td>mm</td>
<td>8490 8740</td>
</tr>
<tr>
<td>Bucket Forces (ISO 6015)</td>
<td>kN</td>
<td>93 93</td>
</tr>
<tr>
<td>Stick Forces (ISO 6015)</td>
<td>kN</td>
<td>73 67</td>
</tr>
</tbody>
</table>

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1400 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1236 mm.
STANDARD EQUIPMENT

ELECTRICAL
- Alternator, 75 A
- Lights
  - Boom working light
  - Cab interior light
  - Roading lights (front/rear)
  - Working lights, cab mounted (front and rear)
- Main shut-off switch
- Heavy-duty maintenance free batteries
- Signal/warning horn

ENGINE
- Automatic engine speed control
- Automatic starting aid
- Cat C4.4 with ACERT Technology emits at levels equivalent to U.S. EPA Tier III and EU Stage IIIA emission standard
- Fuel/water separator with level indicator

HYDRAULICS
- Heavy lift mode
- Load-sensing Plus hydraulic system
- Manual work modes (economy, power)
- Separate swing pump
- Stick regeneration circuit

OPERATOR STATION
- Adjustable armrests
- Air conditioner, heater and defroster with automatic climate control
- Ash tray with cigarette lighter (24 volt)
- Beverage cup/can and bottle holder
- Bolt-on FOGS capability
- Bottom mounted parallel wiping system
- Camera mounted on counterweight
- Coat hook
- Floor mat, washable
- Fully adjustable suspension seat
- Instrument panel and gauges
  - Information and warning messages
  - Gauges for fuel level, engine coolant and hydraulic oil temperature
  - Filters/fluxes change interval
  - Indicators for headlights, turning signal, low fuel, engine dial setting
  - Clock with 10-day backup battery
- Laminated front windshield
- Left side console, tiltable, with lock out for all controls
- Literature compartment behind seat
- Literature holder in right console
- Mobile phone holder

OPERATOR STATION (cont’d)
- Parking brake
- Positive filtered ventilation
- Power supply, 12V-7A
- Rear window, emergency exit
- Retractable seat belt
- Skylight
- Sliding door windows
- Steering column, tiltable
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight
- Travel speed lock
- Visor for rain protection

UNDERCARRIAGE
- Heavy-duty axles, adjustable braking force
- Oscillating front axle with remote greasing
- Tires, 10.00-20 16 PR, dual
- Two tool boxes in undercarriage
- Two-piece drive shaft

OTHER EQUIPMENT
- Automatic swing brake
- Counterweight, 2900 kg
- Mirrors, frame and cab
- Product Link™ ready
- Tool box in upperframe, lockable

KEY OPTIONAL EQUIPMENT

AUXILIARY CONTROLS AND LINES
- Auxiliary boom and stick lines
- Basic control circuits:
  - Medium pressure
  - Hammer only (one way HPF)
  - Tool control/multi function, HP, programmable for up to 10 work tools
  - Quick coupler control
- SmartBoom™

FRONT LINKAGE
- Booms
  - One-piece boom, 4815 mm
  - VA boom (two piece), 5020 mm
- Sticks (2000 mm or 2300 mm)

ELECTRICAL
- Back-up alarm with three selectable modes
- Rotating beacon
- Refueling pump

OPERATOR STATION
- Falling objects guard
- Joystick steering
- CD/MP3 Radio (12V)
- Seat, adjustable high-back
  - mechanical suspension
  - air suspension (vertical)
- 70/30 windshield

UNDERCARRIAGE
- Dozer blade, front or rear mounted
- Outriggers, rear mounted
- Spacer rings and tires

OTHER EQUIPMENT
- Cat Machine Security System
- Cat Product Link
- Counterweight, 3300 kg
- Ride Control