- Engine power, gross: 73 kW  98 hp
- Operating weight: 13.4 ~ 15.2 t 29,529 ~ 33,450 lb
- Buckets (SAE): 600 ~ 975 l 0.78 ~ 1.28 yd³
- Turbocharged Volvo diesel engine with direct injection
- Contronics advanced mode selection system and electronically-controlled system
- Two variable displacement axial piston pumps. Independent and simultaneous movements of the digging equipment are controlled by “Automatic Sensing Work Mode.”
- Cab
  - Ergonomic environment
  - Low sound level
  - Filtered air
  - Hydraulic dampening mounts
  - Fabric seat with heater and air suspension
- Strong digging equipment produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for good stability
- Auxiliary hydraulic valve as standard
- Prepared for a number of optional items
**ENGINE**

The engine is a turbocharged, 4-stroke diesel engine with water cooling, direct injection. The engine has been developed especially for excavator use, providing good fuel economy, low noise levels and a long service life.

- Air Filter: 2-stage
- Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise level.

**Low-Emission Engine**

- Make: VO LVO
- Model: D4D EAE1
- Power output at 35 r/s: 2,100 rpm
- Net (ISO 9249/DIN 6271): 69 kW (93 hp)
- Gross (SAE J1349): 73 kW (98 hp)
- Max. torque at 1,500 rpm: 390 N.m (288 lb.ft)
- No. of cylinders: 4
- Displacement: 4 l (244 cu.in)
- Bore: 101 mm (3.98")
- Stroke: 126 mm (4.96")

**SWING SYSTEM**

The superstructure is swung by the means of an axial piston motor and a planetary reduction gear. Automatic swing holding brake and anti-rebound valve are standard.

- Max. swing speed: 11.0 rpm

**DRIVE**

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected in the track frame.

- Max. drawbar pull (tractive effort): 109.8 kN (24,700 lb)
- Max. travel speed: 3.2/5.5 km/h (2.0/3.4 mph)
- Gradeability: 35° (70%)
The hydraulic system, named “Automatic Sensing Work Mode,” is designed for high productivity, high digging capacity, high maneuvering precision and good fuel economy.

The summation system, boom, arm and swing priority along with boom and arm regeneration provides optimum performance.

The following important functions are included in the system:

Summation system: Combining the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

Boom priority: Gives priority to the boom operation for faster raising when loading or deep excavation.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Supplies priority to the swing operation for faster swing during simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump
- Type: 2 x variable displacement axial piston pumps
- Maximum flow: 2 x 118 l/min 2 x 31 gpm

Pilot pump
- Type: Gear pump
- Maximum flow: 1 x 21 l/min 5.5 gpm

Hydraulic motors
- Travel: Variable displacement axial piston motors
- Swing: Fixed displacement axial piston motor with mechanical brake

Relief valve setting
- Implement: 32.4/34.3 Mpa 4,690/4,980 psi
- Travel circuit: 34.3 Mpa 4,980 psi
- Swing circuit: 24.5 Mpa 3,560 psi
- Pilot circuit: 3.9 Mpa 570 psi

Hydraulic cylinders
- Boom: 2
  - bore x stroke: ø105 x 980 mm ø 4.1” x 38.6”
- Arm: 1
  - bore x stroke: ø120 x 1,045 mm ø 4.7” x 41.1”
- Bucket: 1
  - bore x stroke: ø100 x 865 mm ø 3.9” x 34.1”

The operator’s cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These, along with a sound absorbing lining, provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored. The glass is stored in the door.

Integrated air-conditioning and heating system:
The pressurized and filtered cab air is supplied by automatically controlled fan. The air is distributed via 13 vents.

Ergonomic operator’s seat: The adjustable seat and joystick consoles move independently to accommodate the operator. The seat has nine different adjustments and a seat belt to meet any operator’s comfort and safety.

Sound Level:
- Sound level in cab according to ISO 6396: LpA 72 dB(A)
- External sound level according to ISO 6395: LwA 100 dB(A)
  (Directive 2000/14/EC)
## GROUND PRESSURE

- LC undercarriage with Std. 4.6 m, 15' 1" boom, Std. 2.5 m, 8' 2" arm, 400 kg, 880 lb bucket and 2,100 kg, 4,630 lb counterweight

<table>
<thead>
<tr>
<th>Description</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
<th>Overall width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triple grouser</td>
<td>500 mm</td>
<td>13,390 kg</td>
<td>40.3 kPa</td>
<td>2,490 mm</td>
</tr>
<tr>
<td></td>
<td>20&quot;</td>
<td>29,520 lb</td>
<td>5.9 psi</td>
<td>8' 2&quot;</td>
</tr>
<tr>
<td>Std. 600 mm</td>
<td>13,600 kg</td>
<td>34.1 kPa</td>
<td>2,590 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24&quot;</td>
<td>29,990 lb</td>
<td>5.0 psi</td>
<td>8' 6&quot;</td>
</tr>
<tr>
<td></td>
<td>13,810 kg</td>
<td>29.7 kPa</td>
<td>2,690 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28&quot;</td>
<td>30,450 lb</td>
<td>4.3 psi</td>
<td>8' 10&quot;</td>
</tr>
<tr>
<td></td>
<td>13,920 kg</td>
<td>28.0 kPa</td>
<td>2,740 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30&quot;</td>
<td>30,690 lb</td>
<td>4.1 psi</td>
<td>9' 0&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC undercarriage</td>
<td>500 mm</td>
<td>13,740 kg</td>
<td>41.4 kPa</td>
<td>2,490 mm</td>
</tr>
<tr>
<td></td>
<td>20&quot;</td>
<td>30,300 lb</td>
<td>6.0 psi</td>
<td>8' 2&quot;</td>
</tr>
<tr>
<td>Std. 600 mm</td>
<td>13,950 kg</td>
<td>35.0 kPa</td>
<td>2,590 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24&quot;</td>
<td>30,760 lb</td>
<td>5.1 psi</td>
<td>8' 6&quot;</td>
</tr>
<tr>
<td></td>
<td>14,160 kg</td>
<td>30.5 kPa</td>
<td>2,690 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28&quot;</td>
<td>31,220 lb</td>
<td>4.4 psi</td>
<td>8' 10&quot;</td>
</tr>
<tr>
<td></td>
<td>14,270 kg</td>
<td>28.7 kPa</td>
<td>2,740 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30&quot;</td>
<td>31,470 lb</td>
<td>4.2 psi</td>
<td>9' 0&quot;</td>
</tr>
<tr>
<td>LC undercarriage</td>
<td>500 mm</td>
<td>14,290 kg</td>
<td>43.0 kPa</td>
<td>2,490 mm</td>
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<tr>
<td></td>
<td>20&quot;</td>
<td>31,510 lb</td>
<td>6.2 psi</td>
<td>8' 2&quot;</td>
</tr>
<tr>
<td>Std. 600 mm</td>
<td>14,500 kg</td>
<td>36.4 kPa</td>
<td>2,590 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24&quot;</td>
<td>31,970 lb</td>
<td>5.3 psi</td>
<td>8' 6&quot;</td>
</tr>
<tr>
<td></td>
<td>14,710 kg</td>
<td>31.6 kPa</td>
<td>2,690 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28&quot;</td>
<td>32,440 lb</td>
<td>4.6 psi</td>
<td>8' 10&quot;</td>
</tr>
<tr>
<td></td>
<td>14,820 kg</td>
<td>29.8 kPa</td>
<td>2,740 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30&quot;</td>
<td>32,680 lb</td>
<td>4.3 psi</td>
<td>9' 0&quot;</td>
</tr>
<tr>
<td>LC undercarriage</td>
<td>500 mm</td>
<td>14,640 kg</td>
<td>44.1 kPa</td>
<td>2,490 mm</td>
</tr>
<tr>
<td></td>
<td>20&quot;</td>
<td>32,280 lb</td>
<td>6.4 psi</td>
<td>8' 2&quot;</td>
</tr>
<tr>
<td>Std. 600 mm</td>
<td>14,850 kg</td>
<td>37.3 kPa</td>
<td>2,590 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24&quot;</td>
<td>32,740 lb</td>
<td>5.4 psi</td>
<td>8' 6&quot;</td>
</tr>
<tr>
<td></td>
<td>15,060 kg</td>
<td>32.4 kPa</td>
<td>2,690 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28&quot;</td>
<td>33,210 lb</td>
<td>4.7 psi</td>
<td>8' 10&quot;</td>
</tr>
<tr>
<td></td>
<td>15,170 kg</td>
<td>30.5 kPa</td>
<td>2,740 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30&quot;</td>
<td>33,450 lb</td>
<td>4.4 psi</td>
<td>9' 0&quot;</td>
</tr>
</tbody>
</table>
Note: 1. Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose.
2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.

- **LC undercarriage, max. permitted sizes for pin-on buckets**: Counterweight 2,100 kg, 4,630 lb

<table>
<thead>
<tr>
<th>Boom</th>
<th>Unit</th>
<th>Std. 4.6 m, 15' 1&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm</td>
<td></td>
<td>2.1 m, 6' 11&quot;</td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>925, 1.21</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>800, 1.05</td>
</tr>
</tbody>
</table>

- **LC undercarriage, max. permitted sizes for hook-on buckets**: Counterweight 2,100 kg, 4,630 lb

<table>
<thead>
<tr>
<th>Boom</th>
<th>Unit</th>
<th>Std. 4.6 m, 15' 1&quot;</th>
</tr>
</thead>
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<tr>
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<td></td>
<td>2.1 m, 6' 11&quot;</td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>875, 1.14</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>775, 1.01</td>
</tr>
</tbody>
</table>

- **LC undercarriage, max. permitted sizes for pin-on buckets**: Counterweight 2,450 kg, 5,400 lb

<table>
<thead>
<tr>
<th>Boom</th>
<th>Unit</th>
<th>Std. 4.6 m, 15' 1&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm</td>
<td></td>
<td>2.1 m, 6' 11&quot;</td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>975, 1.28</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>850, 1.11</td>
</tr>
</tbody>
</table>

- **LC undercarriage, max. permitted sizes for hook-on buckets**: Counterweight 2,450 kg, 5,400 lb

<table>
<thead>
<tr>
<th>Boom</th>
<th>Unit</th>
<th>Std. 4.6 m, 15' 1&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm</td>
<td></td>
<td>2.1 m, 6' 11&quot;</td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>950, 1.24</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>825, 1.08</td>
</tr>
</tbody>
</table>
**DIMENSIONS**

- **Boom**

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2.1 m, 6' 11&quot;</td>
</tr>
<tr>
<td>Height</td>
<td>760 mm, 2' 6&quot;</td>
</tr>
<tr>
<td>Width</td>
<td>300 mm, 1' 0&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>570 kg, 1,260 lb</td>
</tr>
</tbody>
</table>

*Includes cylinder, piping and linkage*

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2.5 m, 8' 2&quot;</td>
</tr>
<tr>
<td>Height</td>
<td>760 mm, 2' 6&quot;</td>
</tr>
<tr>
<td>Width</td>
<td>300 mm, 1' 0&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>645 kg, 1,420 lb</td>
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</tbody>
</table>

*Includes cylinder, pin and piping*

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>3.0 m, 9' 10&quot;</td>
</tr>
<tr>
<td>Height</td>
<td>760 mm, 2' 6&quot;</td>
</tr>
<tr>
<td>Width</td>
<td>300 mm, 1' 0&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>720 kg, 1,590 lb</td>
</tr>
</tbody>
</table>

- **Arm**

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>580 mm, 1' 11&quot;</td>
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<tr>
<td>Width</td>
<td>2,590 mm, 8' 6&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>900 kg, 1,980 lb</td>
</tr>
<tr>
<td>Digging depth</td>
<td>562 mm, 1' 10&quot;</td>
</tr>
<tr>
<td>Lift height</td>
<td>504 mm, 1' 8&quot;</td>
</tr>
</tbody>
</table>

*Includes cylinder, piping and linkage*

- **Front dozer blade (for LC only)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>5,790 mm, 18' 11&quot;</td>
</tr>
<tr>
<td>Width</td>
<td>2,590 mm, 8' 6&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>900 kg, 1,980 lb</td>
</tr>
<tr>
<td>Digging depth</td>
<td>562 mm, 1' 10&quot;</td>
</tr>
<tr>
<td>Lift height</td>
<td>504 mm, 1' 8&quot;</td>
</tr>
</tbody>
</table>

*Includes cylinder, pin and piping*
### Dimensions

<table>
<thead>
<tr>
<th>Boom</th>
<th>Unit</th>
<th>Std. 4.6 m, 15' 1&quot;</th>
<th>Std. 2.5 m, 8' 2&quot;</th>
<th>3.0 m, 9' 10&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arm</strong></td>
<td></td>
<td>2.1 m, 6' 11&quot;</td>
<td>2.5 m, 8' 2&quot;</td>
<td>3.0 m, 9' 10&quot;</td>
</tr>
<tr>
<td>A. Overall width of superstructure</td>
<td>mm, ft-in</td>
<td>2,450, 8' 0&quot;</td>
<td>2,450, 8' 0&quot;</td>
<td>2,450, 8' 0&quot;</td>
</tr>
<tr>
<td>B. Overall width</td>
<td>mm, ft-in</td>
<td>2,590, 8' 6&quot;</td>
<td>2,590, 8' 6&quot;</td>
<td>2,590, 8' 6&quot;</td>
</tr>
<tr>
<td>C. Overall height of cab</td>
<td>mm, ft-in</td>
<td>2,770, 9' 1&quot;</td>
<td>2,770, 9' 1&quot;</td>
<td>2,770, 9' 1&quot;</td>
</tr>
<tr>
<td>D. Tail swing radius</td>
<td>mm, ft-in</td>
<td>2,130, 7' 0&quot;</td>
<td>2,130, 7' 0&quot;</td>
<td>2,130, 7' 0&quot;</td>
</tr>
<tr>
<td>E. Overall height of engine hood</td>
<td>mm, ft-in</td>
<td>2,080, 6' 10&quot;</td>
<td>2,080, 6' 10&quot;</td>
<td>2,080, 6' 10&quot;</td>
</tr>
<tr>
<td>F. Counterweight clearance *</td>
<td>mm, ft-in</td>
<td>900, 2' 11&quot;</td>
<td>900, 2' 11&quot;</td>
<td>900, 2' 11&quot;</td>
</tr>
<tr>
<td>G. Tumbler length</td>
<td>mm, ft-in</td>
<td>3,000, 9' 10&quot;</td>
<td>3,000, 9' 10&quot;</td>
<td>3,000, 9' 10&quot;</td>
</tr>
<tr>
<td>H. Track length</td>
<td>mm, ft-in</td>
<td>3,740, 12' 3&quot;</td>
<td>3,740, 12' 3&quot;</td>
<td>3,740, 12' 3&quot;</td>
</tr>
<tr>
<td>I. Track gauge</td>
<td>mm, ft-in</td>
<td>1,990, 6' 6&quot;</td>
<td>1,990, 6' 6&quot;</td>
<td>1,990, 6' 6&quot;</td>
</tr>
<tr>
<td>J. Shoe width</td>
<td>mm, in</td>
<td>600, 24&quot;</td>
<td>600, 24&quot;</td>
<td>600, 24&quot;</td>
</tr>
<tr>
<td>K. Min. ground clearance *</td>
<td>mm, ft-in</td>
<td>430, 1' 5&quot;</td>
<td>430, 1' 5&quot;</td>
<td>430, 1' 5&quot;</td>
</tr>
<tr>
<td>L. Overall length</td>
<td>mm, ft-in</td>
<td>7,610, 25' 0&quot;</td>
<td>7,550, 24' 9&quot;</td>
<td>7,320, 24' 0&quot;</td>
</tr>
<tr>
<td>M. Overall height of boom</td>
<td>mm, ft-in</td>
<td>2,710, 8' 11&quot;</td>
<td>2,830, 9' 3&quot;</td>
<td>3,210, 10' 6&quot;</td>
</tr>
</tbody>
</table>

* Without shoe grouser
### WORKING RANGES & DIGGING FORCES

**Machine with pin-on bucket:**

<table>
<thead>
<tr>
<th>Boom/Arm</th>
<th>Unit</th>
<th>Std. 4.6 m, 15' 1&quot;</th>
<th>Std. 2.5 m, 8' 2&quot;</th>
<th>3.0 m, 9' 10&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Max. digging reach</td>
<td>mm, ft-in</td>
<td>7,960, 26' 1&quot;</td>
<td>8,330, 27' 4&quot;</td>
<td>8,820, 28' 11&quot;</td>
</tr>
<tr>
<td>B. Max. digging reach on ground</td>
<td>mm, ft-in</td>
<td>7,810, 25' 7&quot;</td>
<td>8,190, 26' 10&quot;</td>
<td>8,690, 28' 6&quot;</td>
</tr>
<tr>
<td>C. Max. digging depth</td>
<td>mm, ft-in</td>
<td>5,130, 16' 10&quot;</td>
<td>5,530, 18' 2&quot;</td>
<td>6,030, 19' 9&quot;</td>
</tr>
<tr>
<td>D. Max. digging depth (8' level)</td>
<td>mm, ft-in</td>
<td>4,870, 16' 0&quot;</td>
<td>5,310, 17' 5&quot;</td>
<td>5,850, 19' 2&quot;</td>
</tr>
<tr>
<td>E. Max. vertical wall digging depth</td>
<td>mm, ft-in</td>
<td>4,580, 15' 0&quot;</td>
<td>5,060, 16' 7&quot;</td>
<td>5,500, 18' 1&quot;</td>
</tr>
<tr>
<td>F. Max. cutting height</td>
<td>mm, ft-in</td>
<td>8,180, 26' 10&quot;</td>
<td>8,420, 27' 7&quot;</td>
<td>8,770, 28' 9&quot;</td>
</tr>
<tr>
<td>G. Max. dumping height</td>
<td>mm, ft-in</td>
<td>5,740, 18' 10&quot;</td>
<td>5,980, 19' 7&quot;</td>
<td>6,320, 20' 9&quot;</td>
</tr>
<tr>
<td>H. Min. front swing radius</td>
<td>mm, ft-in</td>
<td>2,570, 8' 5&quot;</td>
<td>2,630, 8' 8&quot;</td>
<td>2,840, 9' 4&quot;</td>
</tr>
</tbody>
</table>

**Digging forces with pin bucket:**

<table>
<thead>
<tr>
<th>Boom/Arm</th>
<th>Unit</th>
<th>Std. 4.6 m, 15' 1&quot;</th>
<th>Std. 2.5 m, 8' 2&quot;</th>
<th>3.0 m, 9' 10&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket tip radius</td>
<td>mm, in</td>
<td>1,250, 49&quot;</td>
<td>1,250, 49&quot;</td>
<td>1,250, 49&quot;</td>
</tr>
<tr>
<td>Breakout force – bucket</td>
<td>SAE</td>
<td>82.4/87.3, 18,520/19,620</td>
<td>82.4/87.3, 18,520/19,620</td>
<td>82.4/87.3, 18,520/19,620</td>
</tr>
<tr>
<td>Teamlout force – arm</td>
<td>SAE</td>
<td>69.6/73.5, 15,660/16,540</td>
<td>61.8 / 65.7, 13,890/14,770</td>
<td>54.9/58.8, 12,350/13,230</td>
</tr>
<tr>
<td>Rotation angle, bucket</td>
<td>deg</td>
<td>174°</td>
<td>174°</td>
<td>173°</td>
</tr>
</tbody>
</table>
### LIFTING CAPACITY (At the arm end without bucket)

Note: For lifting capacity including bucket, simply subtract actual weight of the pin-on bucket or the bucket with quick coupler from the following values.

**EC140B LC (Std. shoe 600 mm, 24")**

<table>
<thead>
<tr>
<th>Across undercarriage</th>
<th>1.5 m, 5'</th>
<th>3.0 m, 10'</th>
<th>4.5 m, 15'</th>
<th>6.0 m, 20'</th>
<th>Max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>t</td>
<td>lb</td>
<td>t</td>
<td>lb</td>
<td>t</td>
</tr>
<tr>
<td>with CWT, 2,100 kg, 4,630 lb</td>
<td>6.0, 20'</td>
<td>4.5, 15'</td>
<td>3.0, 10'</td>
<td>1.5, 5'</td>
<td>3.0, -5'</td>
</tr>
<tr>
<td>Std. boom, 4.6 m, 15' 1&quot; + Arm</td>
<td>2.1 m, 6' 11&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>20'</td>
<td>4.5</td>
<td>15'</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>10'</td>
<td>1.5</td>
<td>5'</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>10'</td>
<td>2.5</td>
<td>10'</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>4.8</td>
<td>10.83</td>
<td>4.8</td>
<td>10.83</td>
<td>4.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities.  
          2. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lifting Capacity Standards.  
          3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.  
          4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.  
          5. Contains metric and U.S. measurement charts.
## STANDARD EQUIPMENT

### Engine
- Turbocharged, 4-stroke diesel engine with water cooling and direct injection
- 2-stage air filter with indicator
- Air intake heater
- Electric engine shut-off
- Fuel filter and water separator
- Coolant filter
- Alternator, 80 A

### Electric/ Electronic control system
- Contronics
  - Advanced mode control system
  - Self-diagnostic system
- Machine status indication
- Engine speed sensing power control
- Automatic idling system
- One-touch power boost
- Safety stop/start function
- Travel alarm
- Adjustable monitor
- Master switch
- Engine restart prevention circuit

### Hydraulic system
- Automatic hydraulic system
- Summation system
- Boom priority
- Arm priority
- Swing priority
- Multi-stage filtering system
- Cylinder cushioning
- Cylinder contamination seals
- Auxiliary hydraulic valve
- Straight travel circuit
- Automatic two-speed travel motors
- Hydraulic piping
  - Hammer & shear: 1 pump flow
  - Quick coupler piping
- Boom and arm regeneration valves
- Swing anti-rebound valves
- Boom and arm holding valves
- Pump flow control for hammer & shear

### Engine restart prevention circuit
- High-capacity halogen lights:
  - Frame mounted 2
  - Boom mounted 2
- Batteries, 2 x 12 V / 100 Ah
- Start motor, 24 V / 4.8 kW
- Coolant filter
- Alternator, 80 A
- Electric/Electronic control system
  - Contronics
    - Advanced mode control system
    - Self-diagnostic system
- Machine status indication
- Engine speed sensing power control
- Automatic idling system
- One-touch power boost
- Safety stop/start function
- Travel alarm
- Adjustable monitor
- Master switch
- Engine restart prevention circuit

### Cab and interior
- Fabric seat with heater and air suspension
- Pilot-operated wrist control joysticks with 3 switches each
- Heater & air-conditioner, automatic
- Hydraulic dampening cab mounts
- Adjustable operator seat and joystick control console
- Flexible antenna
- Hydraulic safety lock lever
- Cab, all-weather sound suppressed, includes:
  - Ashtray
  - Cup holder
  - Lighter
  - Tinted glass
  - Door locks
  - Horn
  - Large storage area
  - Pull-up type front window
  - Removable lower windshield
  - Seat belt
  - Safety glass
  - Sun shield, front, roof, rear
  - Windshield wiper with intermittent feature
- Stereo cassette radio
- Anti-vandalism kit assembly
- Master ignition key

### Undercarriage
- Hydraulic track adjusters
- Greased and sealed track chain
- Track guards
- Undercover (4.5 mm, 0.18")

### Track shoes
- Track shoes 600 mm, 24" with triple grousers

### Digging equipment
- Boom: 4.6 m, 15' 1"
- Arm: 2.5 m, 8' 2"

### Superstructure
- High-capacity halogen lights:
  - Frame mounted 2
  - Boom mounted 2
- Batteries, 2 x 12 V / 100 Ah
- Start motor, 24 V / 4.8 kW
- Coolant filter
- Alternator, 80 A
- Electric/Electronic control system
  - Contronics
    - Advanced mode control system
    - Self-diagnostic system
- Machine status indication
- Engine speed sensing power control
- Automatic idling system
- One-touch power boost
- Safety stop/start function
- Travel alarm
- Adjustable monitor
- Master switch
- Engine restart prevention circuit

### Optional Equipment

#### Engine
- Block heater: 120 V
- Diesel coolant heater
- Tropical cooling kit
- Fuel filter pump: 50 l/min, 132 gpm with automatic shut-off

#### Electric
- Extra lamps:
  - Cab-mounted 3, (front 2, rear 1)
  - Counterweight-mounted 1
  - Overload warning device
  - Rotating warning beacon

#### Hydraulic system
- Hose rupture valve: boom, arm
- Hydraulic piping
  - Hammer & shear: 2 pump flow
  - Additional return filter
  - Extra piping for slope & rotator
  - Slope & rotator
  - G rapple
  - Oil leak (drain) line
- Volvo hydraulic quick-coupler, S6 size
  - Hydraulic oil, ISO VG 32
  - Hydraulic oil, ISO VG 68
  - Hydraulic oil, biodegradable 32
  - Hydraulic oil, biodegradable 46

#### Cab and interior
- Fabric seat with heater and air suspension
- Pilot-operated wrist control joysticks with 3 switches each
- Heater & air-conditioner, automatic
- Hydraulic dampening cab mounts
- Adjustable operator seat and joystick control console
- Flexible antenna
- Hydraulic safety lock lever
- Cab, all-weather sound suppressed, includes:
  - Ashtray
  - Cup holder
  - Lighter
  - Tinted glass
  - Door locks
  - Floor mat
  - Horn
  - Large storage area
  - Pull-up type front window
  - Removable lower windshield
  - Seat belt
  - Safety glass
  - Sun shield, front, roof, rear
  - Windshield wiper with intermittent feature
- Stereo cassette radio
- Anti-vandalism kit assembly
- Master ignition key

#### Undercarriage
- Hydraulic track adjusters
- Greased and sealed track chain
- Track guards
- Undercover (4.5 mm, 0.18")

#### Track shoes
- Track shoes 600 mm, 24" with triple grousers

#### Digging equipment
- Boom: 4.6 m, 15' 1"
- Arm: 2.5 m, 8' 2"

### Superstructure
- Access way with handrail
- Full height counterweight
  - 2,100 kg, 4,630 lb
- Tool storage area
  - Punched metal anti-slip plates
  - Undercover (heavy-duty 4.5 mm, 0.18")
  - One-touch power boost
  - Safety stop/start function
  - Travel alarm
  - Adjustable monitor
  - Master switch
  - Engine restart prevention circuit

### Undercarriage
- Hydraulic track adjusters
- Greased and sealed track chain
- Track guards
- Undercover (4.5 mm, 0.18")

### Track shoes
- Track shoes 600 mm, 24" with triple grousers

### Digging equipment
- Boom: 4.6 m, 15' 1"
- Arm: 2.5 m, 8' 2"

### Superstructure
- Full height counterweight
  - 2,450 kg, 5,400 lb

### Optional Equipment (Standard in certain markets)

#### Engine
- Block heater: 120 V
- Diesel coolant heater
- Tropical cooling kit
- Fuel filter pump: 50 l/min, 132 gpm with automatic shut-off

#### Electric
- Extra lamps:
  - Cab-mounted 3, (front 2, rear 1)
  - Counterweight-mounted 1
  - Overload warning device
  - Rotating warning beacon

#### Hydraulic system
- Hose rupture valve: boom, arm
- Hydraulic piping
  - Hammer & shear: 2 pump flow
  - Additional return filter
  - Extra piping for slope & rotator
  - Slope & rotator
  - G rapple
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#### Cab and interior
- Fabric seat with heater and air suspension
- Pilot-operated wrist control joysticks with 3 switches each
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- Hydraulic safety lock lever
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  - Cup holder
  - Lighter
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  - Large storage area
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  - Removable lower windshield
  - Seat belt
  - Safety glass
  - Sun shield, front, roof, rear
  - Windshield wiper with intermittent feature
- Stereo cassette radio
- Anti-vandalism kit assembly
- Master ignition key

#### Undercarriage
- Hydraulic track adjusters
- Greased and sealed track chain
- Track guards
- Undercover (4.5 mm, 0.18")

#### Track shoes
- Track shoes 600 mm, 24" with triple grousers

#### Digging equipment
- Boom: 4.6 m, 15' 1"
- Arm: 2.5 m, 8' 2"

### Superstructure
- Full height counterweight
  - 2,450 kg, 5,400 lb

### Optional Equipment

All products are not available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice. The illustrations do not necessarily show the standard version of the machine.