VOLVO EXCAVATOR

EC330 B LC

- Engine power, gross: 198 kW 265 hp
- Operating weight: 32.4 ~ 33.8 t
  71,440 ~ 74,530 lb
- Buckets (SAE)
  1,250 ~ 2,500 l
  1.64 ~ 3.27 yd³
- Turbocharged VOLVO diesel engine with direct injection and charged air cooler meets EPA Tier 2 emission standards
- Contronics, advanced mode selection system and electronically controlled system
- 2 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 and charged air cooler that meets EPA Tier 2 emission standards. The engine has been developed especially for excavator use, providing good fuel economy, low noise levels and a long service life.

**Air Filter:** 3-stage, includes pre-cleaner

**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:** VOLVO
- **Model:** D10B EAE2
- **Power output at 28 r/s:** 1,700 rpm
- **Net (ISO 9249/DIN 6271):** 184 kW / 247 hp
- **Gross (SAE J1349):** 198 kW / 265 hp
- **Max. torque:** 1,255 N·m at 1,400 rpm / 926 lb·ft at 1,400 rpm
- **No. of cylinders:** 6
- **Displacement:** 9.6 l / 586 cu.in
- **Bore:** 121 mm / 4.75"
- **Stroke:** 140 mm / 5.51"

**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:** 9.7 rpm

**UNDERCARRIAGE**

The undercarriage has a robust X-shaped frame, greased and sealed track chains are standard.

- **No. of track pads:** 2 x 48
- **Link pitch:** 215.9 mm / 8.5"
- **Shoe width, triple grouser:** 600/700/800(Std.)/900 mm / 24"/28"/32"(Std.)/36"
- **Shoe width, double grouser:** 600 mm / 24"
- **No. of bottom track roller:** 2 x 8
- **No. of top roller:** 2 x 2

**ELECTRICAL SYSTEM**

Well-protected electrical system with high capacity. Waterproof double-lock harness plugs are used to secure corrosion free connections. The main relays and solenoid valves are shielded to prevent damage. A master switch is standard.

**Contronics** provides advanced monitoring of machine function and important diagnostic information.

- **Voltage:** 24 V
- **Batteries:** 2 x 12 V
- **Battery capacity:** 200 Ah
- **Alternator:** 28 V / 55 A

**SERVICE REFILL CAPACITIES**

- **Fuel tank:** 565 l / 149 gal
- **Hydraulic system, total:** 500 l / 132 gal
- **Hydraulic tank:** 220 l / 58 gal
- **Engine oil:** 39.5 l / 10 gal
- **Engine coolant:** 58.7 l / 16 gal
- **Swing reduction unit:** 6.0 l / 1.6 gal
- **Travel reduction unit:** 2 x 5.5 l / 2 x 1.5 gal
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 fast 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 280 l/min 2 x 74 gpm

Pilot pump
Type: Gear pump
Maximum flow: 1 x 25.5 l/min 6.7 gpm

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

Relief valve setting
Implement: 31.4 / 34.3 Mpa 4,550/4,980 psi
Travel circuit: 34.3 Mpa 4,980 psi
Swing circuit: 25.5 Mpa 3,700 psi
Pilot circuit: 3.9 Mpa 570 psi

Hydraulic cylinders
Boom: 2
 bore x stroke: ø150 x 1,530 mm Ø 5.9" x 60.2"

Arm: 1
 bore x stroke: ø175 x 1,700 mm Ø 6.9" x 66.9"

Bucket: 1
 bore x stroke: ø145 x 1,285 mm Ø 5.7" x 50.6"

ME bucket: 1
 bore x stroke: ø160 x 1,250 mm Ø 6.3" x 49.2"

The operators 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 73 dB(A)
External sound level according to ISO 6395 .......................... LwA105 dB(A)
(Directive 2000/14/EC)
### GROUND PRESSURE

- **Machine with Std. 6.45 m, 21' 2" boom, 3.2 m, 10' 6" arm, 1,460 kg, 3,220 lb bucket and 5,800 kg, 12,790 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>600 mm 24&quot;</td>
<td>32,400 kg</td>
<td>61.8 kPa</td>
<td>3,190 mm 10' 6&quot;</td>
</tr>
<tr>
<td></td>
<td>700 mm 28&quot;</td>
<td>33,040 kg</td>
<td>53.9 kPa</td>
<td>3,190 mm 10' 6&quot;</td>
</tr>
<tr>
<td></td>
<td>800 mm 32&quot;</td>
<td>33,440 kg</td>
<td>48.0 kPa</td>
<td>3,390 mm 11' 1&quot;</td>
</tr>
<tr>
<td></td>
<td>900 mm 36&quot;</td>
<td>33,820 kg</td>
<td>43.1 kPa</td>
<td>3,490 mm 11' 5&quot;</td>
</tr>
<tr>
<td>Double grouser</td>
<td>600 mm 24&quot;</td>
<td>32,940 kg</td>
<td>62.8 kPa</td>
<td>3,190 mm 10' 6&quot;</td>
</tr>
</tbody>
</table>

- **Machine with Std. 6.45 m, 21' 2" boom, 3.2 m, 10' 6" arm, 1,460 kg, 3,220 lb bucket and 6,700 kg, 14,770 lb counterweight.**

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<tr>
<td>Triple grouser</td>
<td>600 mm 24&quot;</td>
<td>33,300 kg</td>
<td>62.8 kPa</td>
<td>3,190 mm 10' 6&quot;</td>
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<tr>
<td></td>
<td>700 mm 28&quot;</td>
<td>33,940 kg</td>
<td>54.9 kPa</td>
<td>3,190 mm 10' 6&quot;</td>
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<tr>
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<td>800 mm 32&quot;</td>
<td>34,340 kg</td>
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<td>900 mm 36&quot;</td>
<td>34,720 kg</td>
<td>44.1 kPa</td>
<td>3,490 mm 11' 5&quot;</td>
</tr>
<tr>
<td>Double grouser</td>
<td>600 mm 24&quot;</td>
<td>33,840 kg</td>
<td>63.7 kPa</td>
<td>3,190 mm 10' 6&quot;</td>
</tr>
</tbody>
</table>
### MAX. PERMITTED BUCKETS

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.

- **Max. permitted sizes for pin on buckets:**
  Counterweight 5,800 kg, 12,790 lb

<table>
<thead>
<tr>
<th>Boom</th>
<th>Unit</th>
<th>ME 6.2 m, 20' 4&quot;</th>
<th>Std. 6.45 m, 21' 2&quot;</th>
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</thead>
<tbody>
<tr>
<td>Arm</td>
<td></td>
<td>2.6 m, 8' 6&quot;</td>
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</tr>
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<td></td>
<td></td>
<td>2.6 m, 8' 6&quot;</td>
<td>Std. 3.2 m, 10' 6&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.9 m, 12' 10&quot;</td>
<td></td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>2,300, 3.01</td>
<td>2,200, 2.88</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>2,000, 2.62</td>
<td>1,925, 2.52</td>
</tr>
<tr>
<td>RB bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>1,850, 2.42</td>
<td>1,775, 2.32</td>
</tr>
<tr>
<td>RB bucket 2.0 t/m³, 3,370 lb/yd³</td>
<td>l, yd³</td>
<td>1,725, 2.26</td>
<td>1,650, 2.16</td>
</tr>
</tbody>
</table>

- **Max. permitted sizes for hook on buckets:**
  Counterweight 5,800 kg, 12,790 lb

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<td></td>
<td>3.9 m, 12' 10&quot;</td>
<td></td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>2,175, 2.84</td>
<td>2,050, 2.68</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>1,900, 2.49</td>
<td>1,800, 2.35</td>
</tr>
<tr>
<td>RB bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>1,750, 2.29</td>
<td>1,650, 2.16</td>
</tr>
<tr>
<td>RB bucket 2.0 t/m³, 3,370 lb/yd³</td>
<td>l, yd³</td>
<td>1,625, 2.13</td>
<td>1,550, 2.03</td>
</tr>
</tbody>
</table>

- **Max. permitted sizes for pin on buckets:**
  Counterweight 6,700 kg, 14,770 lb

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<td>Std. 3.2 m, 10' 6&quot;</td>
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<td></td>
<td>3.9 m, 12' 10&quot;</td>
<td></td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>2,500, 3.27</td>
<td>2,400, 3.14</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>2,200, 2.88</td>
<td>2,100, 2.75</td>
</tr>
<tr>
<td>RB bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>2,025, 2.65</td>
<td>1,925, 2.52</td>
</tr>
<tr>
<td>RB bucket 2.0 t/m³, 3,370 lb/yd³</td>
<td>l, yd³</td>
<td>1,875, 2.45</td>
<td>1,800, 2.35</td>
</tr>
</tbody>
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- **Max. permitted sizes for hook on buckets:**
  Counterweight 6,700 kg, 14,770 lb

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<td>Std. 3.2 m, 10' 6&quot;</td>
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<tr>
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<td></td>
<td>3.9 m, 12' 10&quot;</td>
<td></td>
</tr>
<tr>
<td>GP bucket 1.5 t/m³, 2,530 lb/yd³</td>
<td>l, yd³</td>
<td>2,375, 3.11</td>
<td>2,275, 2.98</td>
</tr>
<tr>
<td>GP bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>2,075, 2.71</td>
<td>1,975, 2.58</td>
</tr>
<tr>
<td>RB bucket 1.8 t/m³, 3,030 lb/yd³</td>
<td>l, yd³</td>
<td>1,925, 2.52</td>
<td>1,825, 2.39</td>
</tr>
<tr>
<td>RB bucket 2.0 t/m³, 3,370 lb/yd³</td>
<td>l, yd³</td>
<td>1,775, 2.32</td>
<td>1,700, 2.22</td>
</tr>
</tbody>
</table>
**DIMENSIONS**

● **Boom**

<table>
<thead>
<tr>
<th>Description</th>
<th>ME 6.2 m, 20’ 4”</th>
<th>Std. 6.45 m, 21’ 2”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>6,460 mm, 21’ 2”</td>
<td>6,700 mm, 22’ 0”</td>
</tr>
<tr>
<td>Height</td>
<td>1,740 mm, 5’ 9”</td>
<td>1,800 mm, 5’ 11”</td>
</tr>
<tr>
<td>Width</td>
<td>820 mm, 2’ 8”</td>
<td>820 mm, 2’ 8”</td>
</tr>
<tr>
<td>Weight</td>
<td>3,230 kg, 7,120 lb</td>
<td>3,010 kg, 6,640 lb</td>
</tr>
</tbody>
</table>

* Includes cylinder, pin and piping

● **Arm**

<table>
<thead>
<tr>
<th>Description</th>
<th>2.6 m, 8’ 6”</th>
<th>Std. 3.2 m, 10’ 6”</th>
<th>3.9 m, 12’ 10”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>3,780 mm, 12’ 5”</td>
<td>4,360 mm, 14’ 4”</td>
<td>5,080 mm, 16’ 8”</td>
</tr>
<tr>
<td>Height</td>
<td>1,145 mm, 3’ 9”</td>
<td>1,145 mm, 3’ 9”</td>
<td>1,140 mm, 3’ 9”</td>
</tr>
<tr>
<td>Width</td>
<td>560 mm, 1’ 10”</td>
<td>560 mm, 1’ 10”</td>
<td>560 mm, 1’ 10”</td>
</tr>
<tr>
<td>Weight</td>
<td>1,975 kg, 4,350 lb</td>
<td>1,850 kg, 4,080 lb</td>
<td>2,165 kg, 4,770 lb</td>
</tr>
</tbody>
</table>

* Includes cylinder, piping and linkage
### Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>ME 6.2 m, 20' 4&quot;</th>
<th>2.6 m, 8' 6&quot;</th>
<th>Std. 6.45 m, 21' 2&quot;</th>
<th>3.9 m, 12' 10&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Overall width of superstructure</td>
<td>mm, ft-in</td>
<td>2,990, 9' 10&quot;</td>
<td>2,990, 9' 10&quot;</td>
<td>2,990, 9' 10&quot;</td>
</tr>
<tr>
<td>B. Overall width</td>
<td>mm, ft-in</td>
<td>3,390, 11' 1&quot;</td>
<td>3,390, 11' 1&quot;</td>
<td>3,390, 11' 1&quot;</td>
</tr>
<tr>
<td>C. Overall height of cab</td>
<td>mm, ft-in</td>
<td>3,190, 10' 6&quot;</td>
<td>3,190, 10' 6&quot;</td>
<td>3,190, 10' 6&quot;</td>
</tr>
<tr>
<td>D. Tail swing radius</td>
<td>mm, ft-in</td>
<td>3,390, 11' 1&quot;</td>
<td>3,390, 11' 1&quot;</td>
<td>3,390, 11' 1&quot;</td>
</tr>
<tr>
<td>E. Overall height of engine hood</td>
<td>mm, ft-in</td>
<td>2,700, 8' 10&quot;</td>
<td>2,700, 8' 10&quot;</td>
<td>2,700, 8' 10&quot;</td>
</tr>
<tr>
<td>F. Counterweight clearance *</td>
<td>mm, ft-in</td>
<td>1,210, 4' 0&quot;</td>
<td>1,210, 4' 0&quot;</td>
<td>1,210, 4' 0&quot;</td>
</tr>
<tr>
<td>G. Tumbler length</td>
<td>mm, ft-in</td>
<td>4,020, 13' 2&quot;</td>
<td>4,020, 13' 2&quot;</td>
<td>4,020, 13' 2&quot;</td>
</tr>
<tr>
<td>H. Track length</td>
<td>mm, ft-in</td>
<td>4,962, 16' 3&quot;</td>
<td>4,962, 16' 3&quot;</td>
<td>4,962, 16' 3&quot;</td>
</tr>
<tr>
<td>I. Track gauge</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>J. Shoe width</td>
<td>mm, in</td>
<td>800, 32&quot;</td>
<td>800, 32&quot;</td>
<td>800, 32&quot;</td>
</tr>
<tr>
<td>K. Min. ground clearance *</td>
<td>mm, ft-in</td>
<td>500, 1' 8&quot;</td>
<td>500, 1' 8&quot;</td>
<td>500, 1' 8&quot;</td>
</tr>
<tr>
<td>L. Overall length</td>
<td>mm, ft-in</td>
<td>10,910, 35' 10&quot;</td>
<td>11,160, 36' 7&quot;</td>
<td>11,070, 36' 4&quot;</td>
</tr>
<tr>
<td>M. Overall height of boom</td>
<td>mm, ft-in</td>
<td>3,700, 12' 2&quot;</td>
<td>3,580, 11' 9&quot;</td>
<td>3,350, 11' 0&quot;</td>
</tr>
</tbody>
</table>

* Without shoe grouser
### Working Ranges & Digging Forces

#### Machine with pin on bucket:

<table>
<thead>
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<tr>
<td>Arm</td>
<td>2.6 m, 8' 6&quot;</td>
<td>2.6 m, 8' 6&quot;</td>
<td>Std. 3.2 m, 10' 6&quot;</td>
</tr>
</tbody>
</table>
| A. Max. digging reach | mm, ft-in | 10,480, 34' 5" | 10,540, 34' 7" | 11,060, 36' 3" | 11,700, 38' 5"
| B. Max. digging reach on ground | mm, ft-in | 10,250, 33' 8" | 10,320, 33' 10" | 10,850, 35' 7" | 11,500, 37' 9"
| C. Max. digging depth | mm, ft-in | 6,720, 22' 1" | 6,770, 22' 3" | 7,370, 24' 2" | 8,080, 26' 6"
| D. Max. digging depth (8' level) | mm, ft-in | 6,540, 21' 5" | 6,570, 21' 7" | 7,190, 23' 7" | 7,930, 26' 0"
| E. Max. vertical wall digging depth | mm, ft-in | 4,880, 16' 0" | 4,900, 16' 1" | 5,290, 17' 4" | 5,920, 19' 7"
| F. Max. cutting height | mm, ft-in | 10,070, 33' 0" | 10,100, 33' 2" | 10,260, 33' 8" | 10,530, 34' 7"
| G. Max. dumping height | mm, ft-in | 6,830, 22' 5" | 7,170, 23' 6" | 7,360, 24' 2" | 7,630, 25' 0"
| H. Min. front swing radius | mm, ft-in | 4,180, 13' 9" | 4,390, 14' 5" | 4,340, 14' 3" | 4,320, 14' 2"

#### Digging forces with pin on bucket

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<td>Std. 3.2 m, 10' 6&quot;</td>
</tr>
</tbody>
</table>
| Bucket tip radius | mm, in | 1,810, 71" | 1,623, 64" | 1,623, 64" | 1,623, 64"
| Breakout force - bucket (Normal / Power boost) | SAE kN, lb | 208.0 / 46,970 | 192.0 / 43,220 | 192.0 / 43,220 | 192.0 / 43,220 | 208.0 / 46,970 | 192.0 / 43,220 | 192.0 / 43,220 | 192.0 / 43,220 |
| Tearout force - arm (Normal / Power boost) | SAE kN, lb | 182.0 / 41,020 | 190.0 / 42,780 | 157.0 / 35,500 | 137.0 / 30,870 | 182.0 / 41,020 | 190.0 / 42,780 | 157.0 / 35,500 | 137.0 / 30,870 |
| Rotation angle, bucket | deg | 164° | 177° | 177° | 177° | 164° | 177° | 177° | 177° |
### 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.

**EC330 B LC** (Std. shoe 800 mm, 32°, counterweight 5,800 kg, 12,790 lb)

<table>
<thead>
<tr>
<th>Across under-carryage</th>
<th>Lifting hook related to ground level</th>
<th>4.5 m, 15'</th>
<th>6.0 m, 20'</th>
<th>7.5 m, 25'</th>
<th>9.0 m, 30'</th>
<th>Max. reach</th>
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<td><strong>Boom Std. 6.45 m</strong></td>
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<td><strong>Arm 2.6 m</strong></td>
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<tr>
<td><strong>Boom Std. 6.45 m</strong></td>
<td><strong>21° 2°</strong></td>
<td><strong>Arm 3.2 m</strong></td>
<td><strong>10° 6°</strong></td>
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Notes:
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.

For LIFTING CAPACITY, see the next page.
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.

EC330 B LC (Std. shoe 800 mm, 32°, counterweight 6,700 kg, 14,770 lb)

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</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, direct injection and charged air cooler that meets EPA (Environment Protection Agency) Tier 2 emission standards
- 3-stage air filter with indicator, includes pre-cleaner
- Air pre-cleaner
- Air intake heater
- Electric engine shut-off
- Fuel filter and water separator
- Coolant filter
- Alternator, 55 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

**Hydraulic system**
- Automatic hydraulic system
  - Summation system
  - Boom priority
  - Arm priority
  - Swing priority
- Hydraulic piping
  - Hammer & shear: 1 pump flow
  - Quick coupler piping
  - Boom and arm regeneration valve
  - Swing anti-rebound valve
  - Boom and arm holding valves
  - Pump flow control for hammer & shear
- Multi-stage filtering system
- Cylinder cushioning
- Cylinder contamination seals
- Auxiliary hydraulic valve
- Straight travel circuit
  - Automatic two-speed travel motors
- Hydraulic oil, ISO VG 46

**Superstructure**
- Access way with handrail
- Full height counterweight 6,700 kg, 14,770 lb
- Tool storage area
- Punched metal anti-slip plates
- Overhead (heavy duty 4.5 mm, 0.18")

**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
  - Door locks
  - Tinted glass
  - Floor mat
  - Horn
  - Large storage area
  - Pull-up type front window
  - Removable lower windshield
  - Seat belt
  - Safety glass
  - Sun shield, front, roof, rear
  - Rain shield, front
  - Windshield wiper with intermittent feature
  - Stereo cassette radio
  - Anti-vandalism kit assembly preparation
  - Master ignition key

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

**Track shoes**
- Boom: 6.45 m, 21' 2"
- Arm: 3.2 m, 10' 6"

**Digging equipment**
- Boom: ME 6.2 m, 20' 4"
- Arm: 2.6 m, 8' 6"
- 3.9 m, 12' 10"

**OPTIONAL EQUIPMENT**

**Engine**
- Alternator, 80 A
- Block heater: 120 V
- Oil bath pre-cleaner
- Diesel coolant heater
- Tropical cooling kit
- Fuel filter pump: 50 l/min, 13.2 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
  - Sprope & rotator
  - Gripple
  - Oil leak (drain) line
- Volvo hydraulic quick-coupler, S3 size
- Hydraulic oil, ISO VG 32
- Hydraulic oil, ISO VG 68
- Hydraulic oil, biodegradable 32
- Hydraulic oil, biodegradable 46

**Superstructure**
- Fabric seat, with semi-long levers
- Control joystick, with 5 switches each
- Air-conditioner, manual
- Falling object guard (FO G)
- Cab mounted falling object protective structures (FOPS)
- Sunlight protection, roof (steel)
- Safety screen for front window
- Lower wiper
- Anti-vandalism kit

**Cab and interior**
- Fabric seat, with semi-long levers
- Control joystick, with 5 switches each
- Air-conditioner, manual
- Falling object guard (FO G)
- Cab mounted falling object protective structures (FOPS)
- Sunlight protection, roof (steel)
- Safety screen for front window
- Lower wiper
- Anti-vandalism kit

**Undercarriage**
- Full track guards
- Undercover (heavy duty 10 mm, 0.39"

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.

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www.VolvoCE.com

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