VOLVO COMPACT EXCAVATOR

EC15B XR, XT, XTV

MORE CARE. BUILT IN.
Today’s jobs demand efficient productivity. You want reliable machines that are versatile, comfortable and safe. The Volvo EC15B delivers with consistent quality in a compact, yet powerful, design for increased profits. That’s Volvo quality through and through.

You’re in control
The Volvo EC15B is also built for precision work. Utilizing the best technology available, the closed-centre load-sensing hydraulic system delivers precise control under any condition. Hydraulic speed relies only on the position of the control lever, regardless of the load or number of movements. This quality allows you to combine all machine movements for fine precision and more productive work.

Make quick work of your jobs
The EC15B provides superior efficiency for fast cycle times that will save you both time and money. The exclusive quick coupling system lets you easily connect an attachment or bucket right from the cab for increased speed and efficiency.

Small design, big production
The hydraulic offset of the boom reduces the overall excavator dimensions, helping you work in tight spaces and alongside walls. In addition, the wrap-around shape of the counterweight provides protection against rear impact.

Heavy-duty construction
The EC15B features a double-yoke pivot that doubles the bearing surface on the chassis. There is also a long pin that distributes the stress, for reduced wear and longer life. The boom and dipper structures incorporate cast steel parts on heavily stressed areas. Sturdy steel plates protect all hydraulic connectors. For reduced operating costs, a hydraulic motor drives the crown gear directly, without a reduction gear, offering no wear or play. An optional anti-theft keypad locks the machine’s starting and hydraulic function for added safety.

Versatile performer
The EC15B excels at a wide range of versatile jobs. Dig into hard banks with the large bucket and 1,510 daN of breakout force. Reach new levels of productivity with the 1,750 mm monobloc boom and 900 mm dipper arm. The dozer blade is built strong from track edge to track edge. Dirt and debris fall away from the blade support for smooth and precise finishing work. Whatever the job, the Volvo EC15B helps you do it faster and easier.
- Comfortable ergonomic armrests.
- Optimum load-sensing efficiency.
- Versatile, powerful performance.
EVERYTHING YOU EXPECT FROM VOLVO.

Staying comfortable and safe is key to long-term productivity. In addition, it’s imperative to have a machine that’s easy to service. Volvo Compact Excavators deliver on all counts - providing you with a work environment designed to help you get the most out of every day.

Feel the comfort
Quiet operation is key to operator comfort and environmental control. That’s why the Volvo EC15B has a quiet, low emission engine with plenty of power. Superior soundproofing helps reduce operator fatigue. Short, responsive drive controls avoid excessive movements for easier operation. Gauges are in front of the operator to keep track of key functions. Well-positioned armrests make long shifts more comfortable while ensuring precision control.

Breathing room
While the Volvo EC15B is compact, the cab is large and roomy for a more efficient work environment. The large, flat floor provides plenty of legroom and storage space. Even tall operators will feel at ease in the ergonomic cab. In addition, the hydraulic attachment control pedal folds away when not in use and can be positioned to the right for easy access and optimal operating space.

All around safety
You’ll have 360° of visibility for excellent jobsite command. The round, compact engine cover has improved rear visibility for better safety on narrow or congested sites. Non-slip steps and floor provide safe, easy entry and exit. The cab door opens wide and the console swings up and out of the way for a safer exit. There’s a standard seatbelt for added safety and FOPS 1, ROPS and TOPS certified cabs and canopies for maximum protection.

Maintain top performance
The EC15B is easy to maintain for maximum uptime. Unlike many other compact excavators, its unique tilting counterweight and wrap-around shape provide total engine access and optimum rear protection. The hydraulic oil cooler is mounted on a sliding support allowing better access to cleaning cooler fins. The fuel supply circuit has a transparent at-a-glance pre-filter and features a self-priming electric pump. When working in confined areas, the two consoles on the canopy version lift for access from the right or left. All boom supply hoses are loose fitted and connect on the outside of the machine for less wear and damage.
• The EC15B and its accessories can be easily transported on a trailer.
• Easy access for maintenance and service.
• Large floor for comfort and storage.
**SPECIFICATIONS**

**Engine**
Water-cooled low emissions Mitsubishi L3E diesel engine.
- Displacement, total: 952 cc
- Gross power, rated: 14.0 kW (19.0 hp) at 2800 r/min
- Power, installed (ISO 9249): 11.3 kW (15.5 hp) at 2200 r/min
- Maximum torque (ISO 9249): 54 Nm at 1850 rpm
- Bore x stroke: 76 mm x 70 mm

**Electrical system**
- Rated voltage: 12 V
- Battery capacity: 12 V - 45 Ah
- Alternator rating: 12 V - 40 A
- Starter motor output: 12 V - 1.6 kW

**Hydraulic system**
Closed-centre Load-Sensing hydraulic system providing total independence of each movement.
- Control: power-assisted hydraulic controls
- Gear pump for all the equipment, travel and power-assistance circuits:
  - Maximum delivery: 32 litres/min.
  - Maximum operating pressure: 17 MPa (170 bars)
- Double-acting hydraulic circuit for accessories:
  - Maximum delivery: 32 litres/min.
  - Maximum operating pressure: 17 MPa (170 bars)
- Cushions:
  - On the boom ram: at the rod end

**Bucket performance**
- Breakout force: 1510 daN
- Tearout force: 960 daN

**Slewing system**
Turntable slewing is provided by an Ortitrol hydraulic motor which drives directly (without a reduction gear) a ball internal crown wheel with remote lubrication:
- Slewing speed: 9 r/min

**Undercarriage**

<table>
<thead>
<tr>
<th></th>
<th>EC15B XR</th>
<th>EC15B XT/XTV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rubber Tracks</td>
<td>Steel Tracks</td>
</tr>
<tr>
<td>Track width</td>
<td>230 mm</td>
<td>230 mm</td>
</tr>
<tr>
<td>Track tension</td>
<td>by grease piston</td>
<td>by grease piston</td>
</tr>
<tr>
<td>Blade height</td>
<td>240 mm</td>
<td>240 mm</td>
</tr>
<tr>
<td>Width of the blade</td>
<td>980 mm</td>
<td>980 mm</td>
</tr>
</tbody>
</table>

**Drivetrain**

<table>
<thead>
<tr>
<th></th>
<th>EC15B XR</th>
<th>EC15B XT/XTV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rubber Tracks</td>
<td>Steel Tracks</td>
</tr>
<tr>
<td>Max. speed</td>
<td>2.0 km/h</td>
<td>2.0 - 3.5 km/h</td>
</tr>
<tr>
<td>Max. tractive force</td>
<td>1260 daN</td>
<td>1440 daN</td>
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</tbody>
</table>

**Service fill capacities**

<table>
<thead>
<tr>
<th></th>
<th>EC15B XR</th>
<th>EC15B XT/XTV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rubber Tracks</td>
<td>Steel Tracks</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>21 l</td>
<td>21 l</td>
</tr>
<tr>
<td>Hydraulic system, total</td>
<td>33 l</td>
<td>33 l</td>
</tr>
<tr>
<td>Engine oil</td>
<td>3.6 l</td>
<td>3.6 l</td>
</tr>
<tr>
<td>Cooling system</td>
<td>4.5 l</td>
<td>4.5 l</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th></th>
<th>EC15B XR</th>
<th>EC15B XT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cab version</td>
<td>1603 kg</td>
<td>1663 kg</td>
</tr>
<tr>
<td>Canopy version</td>
<td>1479 kg</td>
<td>1539 kg</td>
</tr>
<tr>
<td>Operating mass</td>
<td>1636 kg</td>
<td>1696 kg</td>
</tr>
<tr>
<td>Canopy version</td>
<td>1512 kg</td>
<td>1562 kg</td>
</tr>
</tbody>
</table>

**Noise levels**
The EC15B conforms to the 2006 European Machine Directive Noise Level (2000/14/CE) of 93 dB(A) for this class of machine.
**Buckets**

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 mm</td>
<td>25 kg</td>
<td>19 l</td>
</tr>
<tr>
<td>300 mm</td>
<td>28 kg</td>
<td>24 l</td>
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<tr>
<td>350 mm</td>
<td>30 kg</td>
<td>28 l</td>
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<tr>
<td>400 mm</td>
<td>32 kg</td>
<td>33 l</td>
</tr>
<tr>
<td>450 mm</td>
<td>35 kg</td>
<td>38 l</td>
</tr>
<tr>
<td>500 mm</td>
<td>37 kg</td>
<td>43 l</td>
</tr>
<tr>
<td>-</td>
<td>40 kg</td>
<td>53 l</td>
</tr>
<tr>
<td>850 mm</td>
<td>43 kg</td>
<td>52 l</td>
</tr>
<tr>
<td>1000 mm</td>
<td>47 kg</td>
<td>60 l</td>
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</tbody>
</table>

**Excavator bucket**

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 mm</td>
<td>3410</td>
<td>2480</td>
</tr>
<tr>
<td>1150 mm</td>
<td>3550</td>
<td>2620</td>
</tr>
<tr>
<td>1150 mm</td>
<td>3550</td>
<td>2620</td>
</tr>
<tr>
<td>1150 mm</td>
<td>3550</td>
<td>2620</td>
</tr>
</tbody>
</table>

*Dig depth with blade down.*

**Dipper**

<table>
<thead>
<tr>
<th>Width</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 mm</td>
<td>3410</td>
<td>2480</td>
<td>2200</td>
<td>2050</td>
<td>1500</td>
<td>3570</td>
<td>3710</td>
</tr>
<tr>
<td>1150 mm</td>
<td>3550</td>
<td>2620</td>
<td>2450</td>
<td>2300</td>
<td>1740</td>
<td>3810</td>
<td>3940</td>
</tr>
</tbody>
</table>

**Ditch bucket**

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>240</td>
<td>230</td>
<td>450</td>
</tr>
<tr>
<td>240</td>
<td>230</td>
<td>450</td>
</tr>
<tr>
<td>240</td>
<td>230</td>
<td>450</td>
</tr>
</tbody>
</table>

**Dimensions**

- **G**
- **H**
- **I**
- **J**
- **K**
- **L**
- **M**
- **N**
- **O**
  - **EC15B XR**: 210 150 1045 1415 860 980 1345 3650
  - **EC15B XT**: 210 150 1085 1415 860 980 1245 3650
  - **EC15B XTV**: 221 175 1085 1470 860 980 1330 1225 3650

**Dimensions**

- **P**
- **Q**
- **R**
- **S**
- **T**
- **U**
- **V**
- **W**
- **X**
  - **EC15B XR**: 240 230 450 1520 1230 2210 970 1120
  - **EC15B XT**: 240 230 450 1520 1230 2210 970 1120
  - **EC15B XTV**: 240 230 450 1520 1230 - 2210 970 1120
STANDARD EQUIPMENT

Engine
Dry-type air filter.
Electric pre-heating device.
Transparent diesel oil filter, pre-filter and sediment bowl.
Oil sump sheet metal guard.
Hand throttle.

Electrical system
12 V - 45 Ah maintenance-free battery. Horn.
12 V power socket for inspection lamp.

Undercarriage
230 mm wide rubber tracks.
Fixed or variable width undercarriage (EC15B XTV only).
Dozer blade.
Blade extensions with supports on the blade (variable width undercarriage) (EC15B XTV only).
Towing and anchoring points.
Remote lubrication of the slewing crown ring.

Hydraulic system
Additional double-acting hydraulic control valve for an attachment circuit with folding control pedal and circuit for direct return of oil to the hydraulic tank.
Attachment circuit piping (double-acting) as far as the bottom of the boom.
Power-assisted control of the hydraulic offset of the boom by the left control lever.
Control of forward movement by two levers.
Hydraulic oil cooler.

Cab (cab version)
Level 1 FOPS (Falling Objects Protective Structure).
TOPS (Tip-Over Protective Structure).
ROPS (Roll-Over Protective Structure).
Vinyl-covered multi-adjustable sprung seat.
Non-slip floor and grab handles for access to the driver’s cab.
Seatbelt.
Cab mounted on rubber mountings.
Two working lights.
Two-speed heating and ventilation.
Cab heat adjustment.
Front window with opening system power-assisted by two gas rams.
Sliding window (right).
Door stops.
Provision for a radio (location for a radio and two speakers, aerial and electric wiring already fitted).
Interior lighting.
Anti-corrosion protection of the cab.
Windscreen wiper and washer (front).
Emergency exit via the rear window.

Canopy (Canopy version)
Level 1 FOPS (Falling Objects Protective Structure).
TOPS (Tip-Over Protective Structure).
ROPS (Roll-Over Protective Structure).
Vinyl-covered all weather multiadjustable sprung seat.
Non-slip floor and grab handle for access to the driver’s cab.
Seat belt.
Working light on the canopy frame.

Instrumentation and monitoring
Monitoring and warning light for: pre-heating, engine oil pressure, water temperature, battery charging, air filter restriction.

OPTIONAL EQUIPMENT

Working equipment
Long dipper (1150 mm).
Mechanically-controlled quickrelease attachment bracket.

Hydraulic circuits for attachments
Hydraulic circuit for single or double-acting attachments (Auger...)
Hydraulic circuit for operating a clam-shell bucket (opening/closing and rotation of the bucket).
Push-pull connectors for attachment line.

Undercarriage
Steel tracks (230 mm wide) (not EC15B XR).

Lighting
Additional working light on the boom.
Additional rear working light.
Rotating beacon.

Environmental protection
Bio-degradable hydraulic oil.
Catalytic exhaust.

Comfort and safety
Radio (cab).
Anti-theft system (2 programmable codes).

Working equipment
1780 mm long monobloc boom.
900 mm dipper.
140° hydraulic boom offset.
Cushion on the boom ram.
Handling equipment for loads inferior to 1000 kg (lifting hook on the bucket with load chart displayed in the driver’s cab).
Remote lubrication of the bottom of the offset ram.

Safety
Engine safety start device: the left console must be raised to operate the starter.
Nitrogen accumulator on the power assistance circuit in order to be able to put the equipment on the ground if the engine is switched off.
Window-breaker hammer (cab).
Key-lockable toolbox.

Official approval
Machine conforming to directive nº 98/37 EEC and its amendments.
Sources emissions in the environment conforming to directive 2000/14/CE.
Handling device conforming to EN standard 474-5.
FOPS 1 conforming to ISO standard 3449.
TOPS conforming to ISO standard 12117.
Electromagnetic compatibility (EMC) conforming to directive nº 89/336 EEC and its amendments.

Fuel gauge.
Hour meter.
Shut down for automatic switching off engine in the event of overheating or drop in oil pressure.

Rear wind-deflector on canopy.
Battery isolator switch.
Fabric seat (cab).
Translation pedals.
Retractable seatbelt.
Safety valve on boom and dipper ram.
Dual stage air filter.
Audible travel warning.
Document storage.

Miscellaneous
Tool kit.
Special customised paint (RAL specifications).
Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from an engineering heritage of over 170 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**

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