Power, water, sewer, gas, fiber optics — the infrastructure that brings the conveniences of life to the world. None of it would be possible without hydraulic excavators. Volvo B-Series excavators deliver the power, control and pure earth-moving force to install utilities in even the most demanding conditions.

**The excavator of choice**
Whether the project involves shallow trenching for electrical conduit or deep digs for sewer lines, Volvo excavators excel in piping applications. The Volvo B-Series is increasingly the excavator of choice for utilities contractors.

It all starts with the rugged boom and arm that deliver the depth and strength to handle any ground conditions. Volvo hydraulics provide outstanding breakout force and slew torque, and also the fine control needed for lifting and placing pipe or manholes.

**Fuel-efficient Volvo engines**
Superior engineering shows in the engine, which is Volvo through and through. With fuel efficiency that will keep your Volvo B-Series excavator at work for two full shifts, these Volvo engines are closely matched to the hydraulic system for optimum performance. And because it’s a Volvo engine, you can be confident of reliable operation and long life.

**Hydraulics match the task**
The hydraulic system is designed to match conditions on the job. Operate in “H” mode for digging, trenching and high production. For the control needed in handling pipes or manholes, switch to “F” mode for smooth and even operation.

**Taking care of the operator**
Clear views from the operator-designed cab provide extra confidence to operators on complicated digs or delicate placement jobs. Operator comfort and convenience are built into every inch of the cab, to make those long workdays seem a lot shorter.

Volvo knows what contractors need in an excavator. We’re there on job sites all over the world, ensuring Volvo is fully aware of the challenges faced by the utilities and piping contractors and assisting to meet these challenges.

Add it all up and you have excavators made for utilities and piping.
Powerful and responsive
With a high-strength, robotically welded boom and arm, B-Series excavators provide the backbone — and the dig depth — to break the earth and power through the trench. The boom and arm are designed for extreme conditions, providing the strength for digging, cutting, breakout and lifting.

Advanced hydraulics
Highly responsive hydraulics allow the operator to feel changing soil conditions or obstacles, for precise and safe digging. A long undercarriage provides sure footing and stability for long-reach or deep-dig operations.

Low-effort wrist-control joysticks provide smooth hydraulic control, to make easy work of digging inside a trench box. One-touch power boost on the right joystick provides 10 percent more breakout force to power through clay, rock, tree roots — whatever gets in the way.

The Advanced Work Mode control system detects the need for additional power in tough conditions. Boom and arm regeneration, coupled with dual axial piston pumps, deliver digging performance for fast cycles and quicker job completion.

Volvo B-Series excavators come with factory-installed piping for hammer or shear — no add-ons or retrofit needed.

Quick fit extends capabilities
For the most efficient digs, the Volvo-designed quick fit allows the operator to easily switch bucket sizes and widths to best suit ground conditions and pipe diameter. The smart design of the quick fit means minimal loss of breakout force.

Swapping buckets or attachments is done quickly, right from inside the cab, without the need for the driver to exit the cab. So when frozen clay or rocky conditions demand a hammer or ripper, attachments are switched easily for maximum productivity.

Key Features
Smart, productive hydraulics
• High breakout forces help cut through tough conditions.
• Easily pull trench boxes and return to digging.
• Power boost supplies 10 percent more force as needed.
• System is like an extension of the operator’s hands, allowing sensitive “feel” of ground conditions or obstacles.
• Precision control for trench sloping or digging within trench boxes.

Advanced Work Mode
• Range of system settings matches engine power with hydraulic pump output.
• Work modes automatically match output to job demands.
• Integrated controls boost fuel efficiency.

Volvo-designed quick coupler
• Control attachment changes right from inside the cab by simply depressing two switches.
• Plate-to-plate interface reduces loss of breakout force for optimum performance.
• Attachment lock indicator gives operator visible signal that attachment is engaged.

Boom, arm options to match jobs
• Range of boom and arm configurations deliver the right depth, from short stick to long reach.

B-SERIES EXCAVATORS CUT THROUGH WHATSOEVER THE EARTH DISHES OUT.

Hard clay. Hard pan. Heavy muck. Wet sand. Solid ledge. Shale. Caliche. Whatever soil conditions contractors face on the job site, Volvo B-Series excavators have the engineering, hydraulics and power to match. Whether it’s compacted desert rock or frost-locked clay, Volvo excavators will master the trench.
The excavator has always been a digging machine. But contractors expect more from their fleets, such as the ability to lift heavy pipe or manholes and carefully place them in the trench.

These pick-and-place operations demand power, torque and fine control. Volvo B-Series excavators deliver this and MORE.

**Smooth lifting power**

It all starts with the lift. Volvo excavators can hoist hefty retention basins, long sections of steel pipe, or heavy manholes with ease. Using the optional Volvo quick fit, remove the bucket to increase capacity on especially heavy lifts.

With dual variable-action piston pumps, the hydraulic system produces high slew torque to smoothly move trench boxes, catch basins, manholes and sections of heavy pipe.

Special shockless valves ensure that slew starts and stops are fast and smooth. A slew rebound-dampening system prevents rebound, ensuring the load stays stable.

**“F” mode enhances control**

Switch to the “F” mode for optimum lifting and placing performance, improved load levelling and total control. “F” mode delivers 10 percent more lifting power at all times.

The responsive joystick controls are an extension of the operator’s hands, allowing precise movement and placement of loads into the trench.

A boom and arm holding valve is standard, to keep loads from slipping during lift, travel and place operations.

Controls require low effort to keep the load in steady motion, lessening operator fatigue. And the engine operates at 75 percent of normal RPMs for fine control and maximum fuel efficiency.

**Finishing operations**

Power and slew control are just the start. By carefully balancing hydraulic output to load demand, Volvo B-Series excavators also excel at delicate finishing operations such as placing gravel bedding under and around pipes or manholes. That precision gives the operator confident control to tamp and set manholes, or flatten and compact trench bottoms.

**Confident visibility**

Outstanding all-around visibility gives clear command of even cramped job sites, meaning more confident operation when lifting and placing heavy loads. With unobstructed views from the cab, you avoid overhead obstacles, safely place objects in the trench, or efficiently complete cut-and-cover operations.

**Key Features**

**Enhanced controllability**

- “F” mode delivers superior control and precise movement.
- Low-effort controls reduce operator fatigue and improve cycle times.
- Hydraulic oil flows to arm and boom for simultaneous lifting and placing motion.
- Rebound dampening lessens stress on the machine while maintaining balanced load.
- Control allows precision placement of pipe in section-joining operations.
- Easily complete finishing operations such as pipe bedding or tamping.

**Lifting power**

- Lift bulky manholes or sections of concrete or steel pipe.
- 10 percent more lifting power in “F” mode.

**Quick fit**

- Lifting eye located directly on quick fit.
- Easily remove bucket to increase lift capacity.
Control: Hydraulics allow precision placement

Quick swing: Allows for efficient backfilling

Smooth movement: Level and compact easily
True productivity on utilities job sites relies heavily on the excavator operator. And the key to a productive operator is a great cab.

With industry-leading visibility, superior comfort and adjustable, low-effort controls, the Volvo B-Series cab delivers what operators value most.

**Industry-leading visibility**
Utility and piping jobs demand good visibility for trenching, lifting, slewling and travel operations. Volvo delivers the cleanest lines of sight you’ll find on any excavator. Good visibility means safer, more effective digging, with low operator fatigue.

For trenching or digging operations, the lower front window is easily removed and stored securely on the cab door. The windshield quickly slides up into the ceiling when the operator wants the front of the cab completely open.

Even with the cab closed, the ample front glass is joined with only a thin crossbar that does not impede visibility. In rainy weather, a large windshield wiper keeps the front glass clear.

For lifting operations, or when looking out for overhead power lines or other obstructions, the cab ceiling is made of tinted, low-glare glass. Side and rear glass — coupled with strategically placed rear-view mirrors — provide superior visibility for slewling, placing or travel.

**Roomy, adjustable features**
To keep the operator comfortable and prevent fatigue on those long workdays, Volvo engineered the B-Series cab with productivity in mind.

The cab offers easy access through a wide swing-out door. Operators will find plenty of legroom, joystick consoles that adjust individually and a fully adjustable seat with nine settings for optimum fit and comfort.

**Comfort in any weather**
The high-capacity heating, cooling and ventilation system keeps the cab comfortable even in extreme weather conditions. Air flow is delivered at four fan speeds through 13 ducts.

The filtered, pressurized system keeps the cab free of dust and the operator unaffected by heat, cold or wind.

Electronic climate control offers heating and cooling capacity in excess of 25,000 BTU.

**Low-noise, low-vibration design**
The Volvo B-Series cab design shields the operator from noise and vibration, lessening fatigue and boosting performance. Sound-absorbing material installed in the cab and engine and pump compartments greatly reduces noise levels.

The cab is mounted on viscous dampening mounts to greatly reduce shock, vibration and noise.

**Key Features**

<table>
<thead>
<tr>
<th>Operator station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deluxe seat has nine adjustments to suit any size operator.</td>
</tr>
<tr>
<td>Joystick consoles can be adjusted individually, providing customized operator comfort.</td>
</tr>
<tr>
<td>Easy-to-read instrument panel provides status on all machine functions.</td>
</tr>
<tr>
<td>Low-effort controls improve productivity and reduce fatigue.</td>
</tr>
<tr>
<td>Smart design provides easy access to all controls and machine functions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cab visibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expansive front and top glass for unobstructed views.</td>
</tr>
<tr>
<td>Gas-spring front window lifts easily for increased visibility.</td>
</tr>
<tr>
<td>Removable lower front window stows neatly in cab door.</td>
</tr>
<tr>
<td>Thin window crossbar does not inhibit forward visibility.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cab comfort</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound-absorbing material provides low noise levels.</td>
</tr>
<tr>
<td>Viscous-mounted cab lessens shock and vibration.</td>
</tr>
<tr>
<td>Electronic climate-control system keeps cab air comfortable in any weather.</td>
</tr>
</tbody>
</table>
With Volvo B-Series excavators, it all starts with superior design and reliability. Volvo Construction Equipment has a heritage of making machines that perform over the long haul. It's all backed up with great dealer service and customer support.

**Proven Volvo engine performance**
The heart of performance with Volvo B-Series excavators is the turbocharged Volvo engine. The six-cylinder engine has direct fuel injection and charged air cooling to meet the unique demands of excavation jobs. For long engine life and reliable performance, Volvo engines feature high horsepower, three-stage air cleaning and a fuel-efficient auto-idling system.

**Easy maintenance and service**
Volvo B-Series excavators are as easy to maintain as they are to run. An in-cab monitor provides the operator constant information on machine operating conditions.

Long-life, high-capacity air and fluid filters mean reliable operation and less downtime. Volvo B-Series excavators have parts commonality with other Volvo products, meaning even better parts availability.

Swing-out doors provide easy access to the engine, filters, hydraulic pumps and other components. Grouped remote lubrication banks and sight gauges for fuel and hydraulic oil make daily checks quick and easy. Grouped pressure-check points with quick fittings also speed up service.

In the unlikely event of a controller failure, Volvo excavators are equipped with an emergency engine-speed-control system that allows operation to continue until a technician arrives.

**Focus on safety**
Like all Volvo products, Volvo B-Series excavators are engineered for safety. Steps and superstructure walkways are made for sure footing with rugged, punched-plate metal and secure handrails. A hydraulic pressure-relief system delivers safer attachment changes and emergency shutdown.

High-capacity halogen work lights on the boom and forward superstructure deliver visibility in low-light conditions.

**Volvo dealer support**
Volvo Construction Equipment’s dealer network provides outstanding customer support with extended warranties, preventive maintenance programs, service contracts and more.

Whether you need maintenance for your whole fleet, or just someone to back you up during a machine outage, Volvo dealers are there. After all, it's about more than iron. It's what we call More Care. Built In.

For utility and piping contractors, having great iron is only part of the equation for success on the job site. Customers want more than a machine. They want support. They want solutions. They need to know their excavator — and their brand — will be there. They need to know Volvo.
<table>
<thead>
<tr>
<th>Engine</th>
<th>Rated output, at r/s (r/min)</th>
<th>ISO 9249/DIN 6271, net kW (hp)</th>
<th>Track length / track gauge mm</th>
<th>Bucket capacity m³</th>
<th>Lifting capacity along undercarriage t</th>
<th>Max. Breakout force, SAE kN</th>
<th>Max. Digging depth m</th>
<th>Operating weight t</th>
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<tbody>
<tr>
<td>Volvo EC140B LC</td>
<td>35</td>
<td>(2 100)</td>
<td>3 740 / 1 990</td>
<td>0,73-1,08</td>
<td>3,5</td>
<td>6,0 / 1,5</td>
<td>8,3</td>
<td>13,7-15,2</td>
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<tr>
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<td>6,0 / 1,5</td>
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<tr>
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<td>4,7</td>
<td>6,0 / 1,5</td>
<td>9,0</td>
<td>16,6-18,8</td>
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<tr>
<td>Volvo EC160B NLC</td>
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<tr>
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<td>4 166 / 2 200</td>
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<td>5,4</td>
<td>6,0 / 1,5</td>
<td>9,0</td>
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<tr>
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<td>7,1</td>
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<tr>
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<td>6,0 / 1,5</td>
<td>9,9</td>
<td>20,9-21,8</td>
</tr>
<tr>
<td>Volvo EC210B NLC</td>
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<td>4 460 / 2 390</td>
<td>0,91-1,48</td>
<td>7,1</td>
<td>6,0 / 1,5</td>
<td>9,9</td>
<td>21,5-22,2</td>
</tr>
<tr>
<td>Volvo EC240B LC</td>
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<td>(1 900)</td>
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<td>0,91-1,48</td>
<td>7,1</td>
<td>6,0 / 1,5</td>
<td>9,9</td>
<td>24,9-25,8</td>
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<tr>
<td>Volvo EC240B NLC</td>
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<td>7,1</td>
<td>6,0 / 1,5</td>
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<tr>
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<td>(1 900)</td>
<td>4 570 / 2 740</td>
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<tr>
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<td>0,91-1,48</td>
<td>10,2</td>
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<td>10,7</td>
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</tr>
<tr>
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<td>11,3</td>
<td>7,5 / 1,5</td>
<td>11,2</td>
<td>37,1-38,4</td>
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<tr>
<td>Volvo EC360B NLC</td>
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<td>10,2</td>
<td>7,5 / 1,5</td>
<td>11,2</td>
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<tr>
<td>Volvo EC460B LC *</td>
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<td>7,5 / 1,5</td>
<td>11,2</td>
<td>45,1-46,6</td>
</tr>
</tbody>
</table>

* Also available upon request with retractable undercarriage.

Volvo EC210B LR
Volvo EC240B LR
Volvo EC290B LR

Engine                  | Rated output, at r/s (r/min) | ISO 9249/DIN 6271, net kW (hp) | Track length / track gauge mm | Bucket capacity m³ | Lifting capacity along undercarriage t | Max. Breakout force, SAE kN | Max. Digging depth m | Operating weight t |
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</tr>
</thead>
<tbody>
<tr>
<td>Volvo EC210B LR</td>
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<td>(1 900)</td>
<td>4 460 / 2 390</td>
<td>0,52</td>
<td>3,0</td>
<td>6,0 / 1,5</td>
<td>12,1</td>
<td>23,2</td>
</tr>
<tr>
<td>Volvo EC240B LR</td>
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<td>(1 900)</td>
<td>4 650 / 2 590</td>
<td>0,52</td>
<td>3,3</td>
<td>10,5 / 1,5</td>
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<td>27,6</td>
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<tr>
<td>Volvo EC290B LR</td>
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<td>(1 900)</td>
<td>4 870 / 2 740</td>
<td>0,52</td>
<td>3,7</td>
<td>10,5 / 1,5</td>
<td>14,8</td>
<td>31,6</td>
</tr>
</tbody>
</table>

* Also available upon request with retractable undercarriage.

11
Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from our 170-year engineering heritage. 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.**