MORE CARE. BUILT IN.
For over 80 years, people have looked to Volvo Construction Equipment for productive, profitable machines. The tradition continues with the Volvo BL60 Backhoe Loader. It’s loaded in all the right places, building direct customer feedback with years of Volvo loader and excavator expertise.

**Designed to fit your needs**
Although the blueprints for the Volvo BL60 Backhoe Loader were drafted by a skilled team of Volvo engineers, the inspiration for its design was taken from construction industry professionals just like you. By incorporating direct customer input into every phase of development, Volvo engineers were able to create a reliable, value-priced machine that delivers increased profitability to operations of all size.

**Tried and tested**
To ensure the BL60 Backhoe Loader meets the strict quality standards applied to all Volvo products, the machine was put through rigorous onsite tests to prepare it for the daily assault of deep trenching, heavy lifting, loading, craning and more. But the real strength of its design is derived from its well-matched Volvo components – from loader to bucket – designed, built and functioning as one focused system. The result is reliable, productive operation year after year.

**Proven power plant**
The Volvo BL60 is equipped with a proven Volvo turbo diesel engine (Tier3 / Stage 3A) that delivers 86 hp (64 kW) of consistent and responsive power. The machine’s Powershuttle gearbox features four fully synchronized gears and electrohydraulic switching between forward and reverse. And, for better balance, the transmission is mounted directly to the engine.

**Durability through and through**
The undercarriage and frame of the Volvo BL60 are built tough for extended long life. Every hydraulic line, fitting, pin and bolt is corrosion protected, and all hydraulic fittings employ O-ring face seal technology to ensure dry hydraulic joints. All electrical components are of the highest quality and all connections feature a waterproof, snap-together design.

- The Volvo engine delivers proven power.
- Quick, easy backhoe attachment bracket.
- Durable undercarriage and frame.
• Chassis integrated tie down hooks.
• Durable box-welded construction.
• 5460 lb (2477 kg) loader lift capacity.
A BETTER WAY TO DIG.

It’s all here: customer-driven design, power and reliability. And with dig depths, breakout forces and operating capacities rated higher than virtually every competitive model in its price class, the Volvo BL60 rises to your challenges – every day. It’s a better way, and it’s all Volvo.

Built to perform
The Volvo BL60’s boom features a closed, box-welded construction with fewer components – and fewer welds – to give it superior strength. The swing post is composed of cast iron, which allows for flexible movement and swing while still maintaining uncompromising strength and durability.

Always ready to perform
When you need to perform in difficult conditions, day in and day out, the BL60 delivers every time. The BL60’s high performance backhoe has a 14’5” (4394 mm) dig depth and 11861 lbf (52,8 kN) of bucket breakout force. The BL60 can be ordered with standard mechanical controls. The Controls are optionally provided with roller switches for handy fingertip control of auxiliary functions, for attachments such as thumbs, augers. The extendible dipper is operated by pedal. The narrow, curved boom provides excellent visibility, easy truck loading and outstanding lift capacity. For safe travel on roads, the boom lock can be manually-applied and hydraulically-released. And there’s a locking pin to secure the swing in place.

Flow-sharing system
The flow-sharing system automatically balances flow and pressure between hydraulic functions to optimize multi-function performance. The flow from the pump is shared among functions in proportion to the movement of the levers when using two or more functions simultaneously, guaranteeing a smooth operation without hesitation and delays.

Stabilizer pads
Stabilizer legs and pads have recently been re-engineered to maximize ground contact throughout the cylinder stroke. The optional flip-over pads are designed to work in both dirt and paved surfaces. The new pads are stronger, larger and provide much improved gripping on hard surfaces. Also available is the optional stabilizer cylinder guard for added protection to the cylinder rod.

- S-style boom enhances visibility.
- Toughness you can see and feel.
• Slopped hood offers optimum visibility.
• Fully opening one-piece windshield.
• 11,861 lb (52.8 kN) backhoe digging force.
When you work in unforgiving terrains, safety is a necessity, not a luxury. The Volvo BL60 delivers the features you need. From easily accessible service points and integrated loader safety strut, to the retractable seatbelt and mechanical parking brake, the BL60 is built for safe operation.

Set your sights on any job
Whether you choose the ROPS or cab version, the Volvo BL60 operator station was built for your work. With strategically placed posts and wide, flat cab windows, you get unobstructed, panoramic views of the site from virtually any working angle. In addition, cab windows can be opened fully or partially for increased ventilation.

Take control of the site
The Volvo BL60’s controls are ergonomically placed to reduce fatigue and maximize productivity. Comfortable grips and responsive handling allow operators to raise, lower, tilt, return-to-dig and float with precision and speed.

A higher level of comfort
Extend your operating season with a standard heater/defrost system. And you can get more comfort features like a cushioned, adjustable suspension seat and provisions for a radio.

More care, built in
To provide maximum uptime and machine life, the Volvo BL60’s design allows for fast and convenient maintenance with 50-hour greasing intervals, a tilt-up hood, ground-level fluid checks, common filter access points, reliable and fixed-flow hydraulics. It doesn’t get any simpler: quality components, thoughtfully arranged to make servicing easy. That’s what Volvo likes to call more care, built in.

Designed to go the distance
When you can’t afford to lose a single day’s work to service or repairs, it pays to go with a name you can trust. Volvo Backhoe Loaders are backed by a standard Volvo warranty and a reliable dealer/service network to keep you up and running. Contact your local Volvo dealer to learn about the benefits of available extended warranty programs.

Entering and exiting the machine is simplified with easy-to-reach handrails and serrated steps on either side of the machine. And for added safety in low-light conditions, the BL60 is equipped with two front and two rear halogen working lights, hazard flashers, and a back-up alarm.
• Ergonomic controls reduce fatigue.
• ROPS/FOPS certified safety cage.
• A spacious cab with a comfortable seat.
Redesigned boom & dipper
• Design of the boom has been simplified by employing common top and bottom pivot forgings, which allow better weld penetration and therefore stronger boom and longer life. The narrow width of the boom provides excellent visibility to the trench.
• The extendible dipper now features increased clearance between inner dipper and telescopic cylinder for trouble free operation.

Great visibility
• The new lower hood line improves visibility to the front of the machine.
• The hood has been redesigned and features internal braces to prevent expansion and its new shape improves the machine curb appeal.

Service & Parking brakes
• Service brakes have been hugely improved and require only light pedal effort to stop the machine. Much larger brake plates have been introduced and are now mounted outboard for easier serviceability.
• Parking brake is independent of the service brakes and is mechanically applied and adjusted through a hand-lever.

Stab & street pads
• Stabilizer legs and flip-over pads have been designed to maximize ground contact, provide good gripping in hard surfaces and longer wear life.
• An optional stabilizer cylinder guard is available for added protection to the cylinder rod.
High steering torque
• Steering torque has been increased resulting from the introduction of a larger cylinder that delivers 30% more power, therefore providing easier steering with a full loader bucket, as well as, less operator effort and fatigue.

Fuel-efficient low-emissions, high-performance engine
• The new D5D Tier 3 compliant Volvo engine, is a low-emission engine that delivers high HP, increased torque, while providing excellent fuel efficiency and reliability.

Redesigned drive line
• The drive line now features a centered drive shaft to the front axle, which can be protected by a drive-shaft guard.
• The rear axle housing, gearing and mounting has been massively reinforced for increased reliability and longer life.

Cooling package
• With the introduction of Tier 3 engine, the cooling capacity has been increased to conform to the new engine requirements and also to enable trouble free operation in high ambient, high humidity conditions.

Redesigned loader arm & buckets
• The BL60 loader arms have been reinforced by increasing the section height of the loader arm, to provide even more strength without excessive weight for greater lifting capacity.
• A wide range of loader buckets, such as pin-on 1.0CY GP, 1.3CY GP and MP, bucket are now available, all of them with standard integrated spill guard to protect the single bucket cylinder rod.


**SPECIFICATIONS**

**Engine**
Low-emission 62 kW (83 net hp), turbocharged 4-cylinder liquid-cooled Volvo diesel engine with a 28% torque rise.

- **Model**: Volvo D5D
- **Displacement**: 293 cu in (4.8 l)
- **Compression ratio**: 18:1
- **Rated speed**: 2200 rpm
- **Maximum torque @ 1600 rpm**: 288 lb-ft (380 Nm)

**Electrical system**
Weatherproof connections. Standard 12-Volt, 690 CCA battery with dual battery option. Standard 95 amp alternator.

**Drivetrain**
Foot operated differential lock allows 100% full lock on rear axle. Final reduction in wheel hubs by a three pinion outboard planetary drive.

**Travel speed**
Maximum speed, forward/reverse

<table>
<thead>
<tr>
<th>Speed</th>
<th>Max. Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3.3 mph (5.5 km/h)</td>
</tr>
<tr>
<td>2</td>
<td>5.2 mph (8.8 km/h)</td>
</tr>
<tr>
<td>3</td>
<td>10.6 mph (17.7 km/h)</td>
</tr>
<tr>
<td>4</td>
<td>21.2 mph (35.4 km/h)</td>
</tr>
</tbody>
</table>

**Brakes**
Multi-plate, oil-immersed, servo power assisted, self-adjusting outboard disc brakes with four wheel drive automatically engaged in third and fourth gear. Independent, interlocking, twin serrated brake pedals. Parking brake engaged by a mechanical lever.

**Steering**
Hydrostatic steering with protected double acting single cylinder behind the front axle with remote grease fitting for axle pivot pin.

**Two Wheel drive**

- **Turns lock to lock**: 4.25
- **Steering angle of**: 56°

**Four Wheel Drive**

- **Turns lock to lock**: 4
- **Steering angle of**: 55°

**Turning circle over the wheels**

<table>
<thead>
<tr>
<th>With brakes</th>
<th>Without brakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>21°8&quot; (6.6 m)</td>
<td>30°2&quot; (9.2 m)</td>
</tr>
</tbody>
</table>

**Turning circle over the loader bucket**

<table>
<thead>
<tr>
<th>With brakes</th>
<th>Without brakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>32°2&quot; (9.8 m)</td>
<td>38°1&quot; (11.6 m)</td>
</tr>
</tbody>
</table>

**Hydraulic system**
Open-center, flow-sharing with single gear type pump powering the digging elements and attachments.

<table>
<thead>
<tr>
<th>Max. flow</th>
<th>30.1 us gal/min (114 l/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working pressure</td>
<td></td>
</tr>
<tr>
<td>Excavator</td>
<td>3626 psi (250 bar)</td>
</tr>
<tr>
<td>Loader</td>
<td>3191 psi (220 bar)</td>
</tr>
<tr>
<td>System capacity</td>
<td>29.1 us gal (110 l)</td>
</tr>
</tbody>
</table>

**Load capacity at full height**
(with 1 cu yd general purpose bucket)

<table>
<thead>
<tr>
<th>Bucket breakout force</th>
<th>5460 lb (2477 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loader arm breakout force</td>
<td>9712 lb (43.2 kN)</td>
</tr>
</tbody>
</table>

**Cycle Times:**

| Raise to full height | 4.1 sec |
| Dump time | 2.4 sec |
| Culr time | 1.9 sec |
| Lower | 3.4 sec |

**Tires**
Rear tires: 19.5Lr24
2WD Front: Goodyear 11Lx16, 12 PR, Laborer Tread
4WD Front: 12Lx16.5
Sure Grip Lug (option)

**Noise level**
Inside cab: 74 dba
Outside cab: 102 dba
### Backhoe Buckets Dimensions

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
<th>Capacity</th>
<th>Nbr. Teeth</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 in</td>
<td>251 lb</td>
<td>2.8 cu ft</td>
<td>3</td>
</tr>
<tr>
<td>(300 mm)</td>
<td>(114 kg)</td>
<td>(0.08 m³)</td>
<td></td>
</tr>
<tr>
<td>18 in</td>
<td>308 lb</td>
<td>4.8 cu ft</td>
<td>4</td>
</tr>
<tr>
<td>(450 mm)</td>
<td>(140 kg)</td>
<td>(0.14 m³)</td>
<td></td>
</tr>
<tr>
<td>24 in</td>
<td>368 lb</td>
<td>7.1 cu ft</td>
<td>5</td>
</tr>
<tr>
<td>(610 mm)</td>
<td>(167 kg)</td>
<td>(0.2 m³)</td>
<td></td>
</tr>
<tr>
<td>36 in</td>
<td>473 lb</td>
<td>11.6 cu ft</td>
<td>6</td>
</tr>
<tr>
<td>(910 mm)</td>
<td>(215 kg)</td>
<td>(0.33 m³)</td>
<td></td>
</tr>
<tr>
<td>48 in</td>
<td>298 lb</td>
<td>5.7 cu ft</td>
<td>0</td>
</tr>
<tr>
<td>(1215 mm)</td>
<td>(135 kg)</td>
<td>(0.16 m³)</td>
<td></td>
</tr>
<tr>
<td>60 in</td>
<td>348 lb</td>
<td>7.4 cu ft</td>
<td>0</td>
</tr>
<tr>
<td>(1515 mm)</td>
<td>(158 kg)</td>
<td>(0.21 m³)</td>
<td></td>
</tr>
</tbody>
</table>

### Loader Buckets Dimensions

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.5 in (2350 mm)</td>
<td>992 lb (450 kg)</td>
<td>1.0 cu yd (784 l)</td>
</tr>
<tr>
<td>Multi-purpose bucket</td>
<td>92.5 in (2350 mm)</td>
<td>1728 lb (784 kg)</td>
</tr>
</tbody>
</table>

### Loader Dimensions (1.0 cu yd / 0.8 m³)

- **A** - Height to hinge pin: 11' (3345 mm)
- **B** - Dump angle: 50°
- **C** - Dump reach: 2'9" (835 mm)
- **D** - Dump height (@ 45° dump angle): 8'9" (2660 mm)
- **E** - Bucket rollback: 46°
- **F** - Dig depth below grade: 0'11" (271 mm)
- **G** - Bucket breakout force: 11330 lb (50.4 kN)

### Backhoe Dimensions - Standard Dipper

- **G** - Maximum digging depth (SAE): 14'5" (4394 mm)
- **H** - Loading height: 12'8" (3854 mm)
- **I** - Operating height: 18'5" (5615 mm)
- **J** - Reach from swing post: 19'3" (5863 mm)
- **K** - Reach from rear axle: 23' (7005 mm)
- **L** - Bucket digging force (SAE J1179): 11861 lb (50.4 kN)
- **M** - Dipper digging force (SAE J1179): 7324 lb (32.6 kN)

### Backhoe Dimensions - Extendible Dipper

- **G** - Maximum digging depth (SAE): Ret - 14'5" (4394 mm)
  Ext - 17'11" (5461 mm)
- **H** - Loading height: Ret - 12'8" (3854 mm)
  Ext - 14'9" (4490 mm)
- **I** - Operating height: Ret - 18'5" (5615 mm)
  Ext - 20'6" (6252 mm)
- **J** - Reach from swing post: Ret - 19'3" (5863 mm)
  Ext - 22'5" (6831 mm)
- **K** - Reach from rear axle: Ret - 23' (7005 mm)
  Ext - 26'2" (7973 mm)
- **L** - Bucket digging force (SAE J1179): 11861 lb (52.8 kN)
- **M** - Dipper digging force (SAE J1179): 7324 lb (32.6 kN)
- **N** - Bucket rotation: 194°
- **O** - Swing torque: 19177 lbf ft (26 kN-m)

*with Quick Attach*
LOADER LIFT CAPACITY

Operating Specifications with flip-over forks on a GP bucket

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fork Tine Length</td>
<td>42 in (1070 mm)</td>
</tr>
<tr>
<td>Operating load</td>
<td>2943 lb (1335 Kg)</td>
</tr>
<tr>
<td>SAE load center</td>
<td>1 ft 8 in (500 mm)</td>
</tr>
</tbody>
</table>

Operating Specifications with flip-over forks on a MP bucket

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fork Tine Length</td>
<td>42 in (1070 mm)</td>
</tr>
<tr>
<td>Operating load</td>
<td>2434 lb (1104 Kg)</td>
</tr>
<tr>
<td>SAE load center</td>
<td>1 ft 8 in (500 mm)</td>
</tr>
</tbody>
</table>
BACKHOE LIFTING CAPACITY

Lift capacity figures comply with SAE J31.
All figures are stated in pounds (kilograms).
The large arc indicates boom-lift.
The small arc indicates dipper-lift with the boom at 63 degrees.

BL60 Backhoe with Standard Dipper
Equipped with 24" heavy-duty backhoe bucket,
1.3 cu. yd. heavy-duty loader bucket,
11-16 SL front tires, 19.5L-24 rear tires

BL60 Backhoe with Extendible Dipperstick, Retracted
Equipped with 24" heavy-duty backhoe bucket,
1.3 cu. yd. heavy-duty loader bucket,
11-16 SL front tires, 19.5L-24 rear tires

BL60 Backhoe with Extendible Dipperstick, Extended
Equipped with 24" heavy-duty backhoe bucket,
1.3 cu. yd. heavy-duty loader bucket,
11-16 SL front tires, 19.5L-24 rear tires
STANDARD EQUIPMENT

General

Cab
Meets SAE ROPS/FOPS requirements, dual entry, serrated steps and easy to reach handrails, deluxe trim, suspended cloth seat and 2 in (51 mm) retractable seat belt, fixed steering column, hand and foot throttle, interior rearview mirror, dome light. Two front and two rear work lights, back-up alarm, horn with front/rear facing access, warning buzzer, hazard flashers and turn signals. 12-Volt mobile power socket, cup holders, coat hook, storage trays. Heater/defroster system, cab pressurization, front/rear windshield wiper/washer, 4 flat, tinted side windows that open fully or partially, one-piece slide-open rear window.

Sound levels 102 outside, 74 inside.

Canopy
Meets SAE ROPS/FOPS requirements, dual entry, serrated steps and easy to reach handrails, non-suspended vinyl seat and 2 in (51 mm) retractable seat belt, fixed steering column, hand and foot throttle, interior rearview mirror. Two front and two rear work lights, back-up alarm, horn with front/rear facing access, hazard flashers and turn signals. 12-Volt mobile power socket and storage trays. Sealed switches on right side instrument panel with lockable vandal guard.

Loader
Fabricated arms with dual lift cylinders and single, center-mounted dump cylinder, optional choice of buckets. Two spool loader valve.

Transmission disconnect on loader lever. Forward/reverse transmission direction lever on steering column. Mechanical self-leveling system, loader arm float and bucket return-to-dig.

Engine
Volvo 293 cu in (4.8 l), 83 SAE Net hp, turbocharged diesel engine which meets or exceeds EPA Tier 3 compliance requirements. Self-cleaning, dual element air cleaner, spin-on fuel filter, fuel and water separator, high ambient tilting cooling package, front grill, key-activated manifold cold start assist, anti-freeze protection. 500-hour service interval.

Front Axle - 2WD

Front Axle - 4WD

Transmission
Four speeds forward and four speeds reverse. Synchronized shifting in all gears, powershuttle direction change. 12.2 in (310 mm) diameter torque converter, transmission disconnect switch on loader control lever and transmission shift lever, 100% foot-activated differential lock, spin-on oil filter.

Rear Axle

Brakes
Internal, multi-disc, oil-immersed, hydraulically-actuated and power-assisted self-adjusting service brakes. Brake pedals operable either independently or locked together. External parking brake. 4WD units equipped with 4WD assist braking in third and fourth gears.

Electrical System
12-Volt system. Meets IP65 water ingress test standard, 95 amp alternator, one 690 CCA low-maintenance battery. Two front-adjustable 55 watt halogen work lights and two rear-adjustable 55 watt halogen work lights. Central fuse panel plus fuses and relays within battery box. Neutral start circuit and weatherproof connectors.

Instrumentation & Controls
Right side instrument panel with audible and visual warning system. Instruments to monitor the following machine functions: engine coolant temperature, engine rpm, machine hours, fuel level, engine preheating, engine oil pressure, air cleaner restriction, transmission oil temperature, service indicator, battery charging, hydraulic filter restriction and hydraulic oil temperature.

Hydraulic System
Open-center, flow-sharing system with gear pump, maximum flow of 30.1 gal (114 l) per minute and system pressure of 3626 psi (250 bar). O-ring face seal hydraulic fittings, locking hydraulic tank cap. Hoses and tubing designed for long life and ease of service.

Backhoe
Center mount, standard dipper with 14"5" (4394 mm) maximum dig depth, optional extendible dipper with 17'11" (5461 mm) maximum dig depth, choice of 2 lever “SAE Backhoe” or “ISO Excavator” pattern controls, hydraulic boom lock, and manual swing lock. State-of-the-art, high-performance backhoe, wide stance stabilizers with dirt pads and anti-drift valves, twin cylinder swing system, optional choice of buckets and control patterns.

Security
Single key system for ignition, cab doors, fuel cap, canopy unit vandal cover (on ROPS units), tool box and engine compartment.

Warranty
12 month limited warranty included. Variety of optional Customer Assurance Plans available.

OPTIONAL EQUIPMENT

Operator’s Area

Floor mat (canopy).
Vandal guard for canopy.
Cup holder (canopy).
Tool kit.
Plastic roof (canopy).
Sun visor.
Suspension seat.

Backhoe Attachment Bracket

Mechanical attachment bracket.
Lift eye.
Plastic pads for standard pad.
Flip over stabilizer pads.

Backhoe Auxiliary Hydraulics

Hydraulic breaker circuit kit. Includes valve, control switch, boom pipework and machine end quick couplers. Bi-directional auxiliary hydraulic line.

Loader Attachments

1.3 cu yd General Purpose bucket.
Flip-over fork kit for multipurpose loader bucket.

Loader Auxiliary Hydraulics

Required for multi-purpose bucket and other hydraulic attachments. Loader hydraulics and loader arm pipework for operation of multipurpose bucket.
OPTIONAL EQUIPMENT

Loader Hydraulics Required with Multi-purpose bucket
Loader hydraulics and loader arm pipework for operation of multi-purpose bucket.

Cutting Edges and Teeth

Miscellaneous
Anti theft device.
Hand held hydraulic circuit.
Special Paint.
Special quantities (Call Volvo Order Desk).
Cyclonic air pre-filter.
Drive Shaft guard.
Rear lights protection.
Engine pre-heater.
Additional outside toolbox.
Street pads.
Stabilizer guards.
Hose guard under king post.

BACKHOE PART

Backhoe bucket:
Ditch bucket 48" (1200mm).
Ditch bucket 59" (1500mm).
Trench bucket Heavy duty 12" (305mm), 18" (450mm), 24" (700mm), 36" (910mm).
Trench bucket Standard duty 12" (305mm), 16" (400mm), 18" (450mm), 24" (700mm), 36" (910mm).

Pin-on Backhoe Attachment Bracket
Mechanical.

Hydraulic breaker
Hydraulic breaker HB440

Breaker HB440 tools
Moil Point
Chisel parallel to the boom
Shovel parallel to the boom
Compacting plate

LOADER PART

Loader bucket, direct pin-on:
GP bucket 1.0 cu yd (0.8m³).
GP bucket 1.3 cu yd (1m³).
GP bucket 1.3 cu yd (1 m³) with fork retention.
MP bucket 1.3 cu yd (1 m³).

Bolt-on teeth
Bolt-on cutting edges

Forks:
Flip over pallet forks.
Volvo Construction Equipment is different. The company's products are designed, built and supported in a different way. That difference comes from our 175-year engineering heritage. A heritage of thinking first about the people who actually use the machines. About how to make them 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.

Not all products are 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.