Wheel loaders are required to work long shifts, day after day, year after year. The L150E gets the job done with maximum efficiency and minimum impact on the operator and environment. The 25-ton L150E reinforces Volvo’s reputation of producing reliable equipment that will withstand the conditions of heavy-duty work. The L150E - built to endure long shifts for years to come.

The Volvo L150E is a lively machine. The high performance, low emission engine delivers close to maximum power already at low rpm. Furthermore, the powerful patented TP linkage, combined with Volvo’s purpose-built range of attachments, provides the flexibility needed to handle a variety of tasks. Jobs at which the L150E excels include loading trucks, feeding a crusher, earthmoving and timber handling. Advanced technology helps to make this a swift, versatile and fuel efficient production machine. In fact, we’re convinced you’re looking at the champion in the 25-ton class.

Get more done
You’ll find the L150E a pleasure to operate. In this respect, competing loaders simply can’t compete. It’s powerful, agile and easy to maneuver. Sitting comfortably in an ergonomically designed seat, you have total control over the machine. Engine and hydraulics respond immediately to your commands. Visibility is panoramic and the air in the cab is always fresh. Both operator and machine get more done with a lot less haste.

A great deal for your investment
Proven reliability, excellent financing, extremely low fuel consumption and a high trade-in value provide the cornerstones of a safe investment. Add to that outstanding handling and productivity, a market-leading operator environment to protect the person in the machine, quick and simple daily maintenance and modest service requirements. And what do you get? The most cost efficient loader in its class, delivering unparalleled profitability – both now and in years to come.

With the L150E, everybody is a winner. Quite simply, a great deal for your money.

Specifications L150E

<table>
<thead>
<tr>
<th>Engine: Volvo D9A LB E2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max power at 26,7 r/s (1600 r/min)</td>
</tr>
<tr>
<td>SAE J1995 gross: 211 kW (287 hp)</td>
</tr>
<tr>
<td>ISO 9249, SAE J1349 net: 210 kW (284 hp)</td>
</tr>
<tr>
<td>Breakout force: 178,1 kN*</td>
</tr>
<tr>
<td>Static tipping load at full turn: 15 290 kg*</td>
</tr>
<tr>
<td>Buckets: 3.1 - 12.0 m³</td>
</tr>
<tr>
<td>Log grapples: 1.6 - 3.5 m²</td>
</tr>
<tr>
<td>Operating weight: 23.0 - 26.0 t</td>
</tr>
<tr>
<td>Tires: 26.5 R25</td>
</tr>
<tr>
<td>775/65 R29</td>
</tr>
</tbody>
</table>

* Bucket: 4.0 m³ with bolt-on edges; tires 26.5 R25 L3, standard boom
The only thing modest about this machine is its fuel consumption
Even at low rpm, the 12-liter high performance engine delivers full power and maximum torque. The machine responds quickly and forcefully with excellent rimpull, full hydraulic power, low fuel consumption and low emissions. And thanks to the low rpm performance, the service life of the engine is extended.

Responds to your commands
The Volvo fully automatic countershaft transmission provides smooth and effective gear shifting. All the operator has to do is select forward or reverse and APS automatically selects the right gear according to both engine rpm and ground speed. Volvo’s in-house engineered axles and drivetrain are well matched and designed for top dependability. And Volvo’s oil circulation cooled wet disc brakes provide smooth, effective braking – and, of course, a long service life.

Torque Parallel linkage – a breakthrough in the industry
The reliable TP linkage, Volvo’s patented lift-arm system, delivers high and even breakout torque throughout the entire lifting range. The system is exceedingly user-friendly. The operator can easily handle heavy materials and maintain full control in all positions.

Hydraulics that make sense
The Volvo L150E features an intelligent load sensing system for both the main and steering hydraulics. Two variable piston pumps provide the exact flow and pressure required at any given moment, distributing power when and where it’s needed. In addition to rapid response, this system facilitates smoother operation, lower fuel consumption, and precise control, even at low rpm.

Engine
• Volvo D9A, a turbocharged, air-to-air intercooled low emission engine with electronically controlled fuel injection, delivers high torque even at low rpm.
• The electronically controlled hydrostatic fan is only activated when necessary, thus saving fuel.

Transmission
• With Volvo’s 3rd generation of APS, the operator can select between four different operating modes, including the new AUTO function, which adaptively chooses the most convenient shifting program for the job at hand, equally weighing the operator’s driving habits together with the operating cycle.
• The 3rd generation APS now has fully automatic shifting 1–4, meaning all the operator has to do is choose forward or reverse.

Axles/Brakes
• The Volvo axles are fully integrated with the drivetrain, delivering superior rimpull.
• Oil circulation cooled wet disc brakes ensure effective braking and a long service life.
• An electronic brake test in Contronic gives you instant access to the status of the brakes.
• A brake wear indicator on each wheel allows you to easily check the brake pad wear.

Steering
• Load-sensing steering only uses power when it’s needed, thereby saving fuel.
• E-series loaders feature an accumulator system, providing stable, smooth steering and greater safety.

Frame
• Rugged frame design for secure mounting of components increases the service life of the machine.
• Volvo’s frame joint bearing design is a well-proven concept that’s easy to maintain and renowned for its long service life.

POWER UP YOUR PRODUCTIVITY

Load more tons per hour with the Volvo L150E. Its powerful engine and the fully Automatic Power Shift (APS) gear shifting system provide immediate response even in the toughest conditions. And Volvo axles are designed to ensure that the rimpull is there when needed. Torque Parallel linkage (TP linkage), load-sensing hydraulics, smooth steering and stable operation help make the L150E a precision performer.
TP linkage
• Unique patented lift-arm system, which provides two solutions in one: excellent breakout torque and parallel action throughout the entire lifting range.

Load-sensing hydraulics
• The load-sensing hydraulic system ensures that hydraulic oil is pumped around the system only when and where it's needed. This means greater efficiency and lower fuel consumption.
• Pilot-operated hydraulics allow precise control of the attachments, making life easier, and safer, for the operator.
Volvo Care Cab with the Contronic monitoring system reinforces Volvo’s reputation as a leader in operator environments and cab comfort. We never forget the operator inside the machine. A comfortable, operator-friendly and safe environment makes the workday easier and more productive.

**A clean and comfortable workplace**
The right cab climate does wonders for efficiency, keeping operators sharp during long shifts. In fact, all incoming air is filtered in two stages, making this one of the cleanest cabs on the market. Even the recirculated air is filtered. Furthermore, Volvo’s state-of-the-art air-conditioning* provides a pleasant temperature year-round, regardless of outdoor conditions. So even after a long work shift, the air in the cab is still fresh and the operator’s mind is still clear.

**Comfort and productivity go hand-in-hand**
There is a range of comfortable seats, all of them with multiple adjustment functions for optimal individual comfort. All instruments are visible at a glance, and all important information is right in front of the operator. The forward, reverse and kick-down functions are situated both on the lever on the left-hand side of the steering wheel and on the hydraulic console to the right. And thanks to Comfort Drive Control (CDC)*, you can steer, change directions and kickdown to first gear with easy-to-use controls integrated into the left-hand armrest – an excellent way to combat fatigue and static muscle strain. Furthermore, to avoid monotonous arm movements, you can shift at any time from lever steering to using the steering wheel.

**Contronic keeps an eye on everything**
Contronic, the highly reliable control and monitoring system from Volvo, continuously monitors the machine’s operation and performance. The system is an electronic network made up of three computers. Operating at three levels, the system keeps an eye on the machine’s various functions in real-time. If a potential problem should occur, the system generates an immediate warning, making the operator aware of the condition. All operating data is saved and can be used to analyze how the machine performs and also to trace its history since the latest service. The machine’s functions can be updated for optimal adaptation to new and changing operating conditions via the Contronic service display tool. With VCADS Pro, it’s also possible to check and adjust the machine’s functions and performance characteristics.

**Low noise levels**
Thanks to the ingenious viscous cab mounts and heavy-duty insulation, the Care Cab is one of quietest cabs on the market. By reducing tiresome earfuls and annoying vibrations, the operator will stay sharp throughout the shift. In short, it’s a great place to work.

---

**Care Cab**
- Unrivalled operator environment with one of the market’s best cab filtration systems.
- Pleasant interior with superior finish makes it easy to maintain and keep clean.
- Adjustable seat, armrest, hydraulic lever console and steering wheel* for optimal operator comfort and high production.
- Contronic, a superior control and monitoring system, designed to increase safety and productivity.
- All service platforms and entry ladders boast improved anti-slip surfaces. Sloped entry ladder for easy cab access.
- Standard viscous cab mounts feature a silicon fluid and rubber compound that work together to dampen cab vibrations and increase operator comfort.
- Large windscreens, narrow pillars and a sloped engine hood ensure good panoramic visibility, thus further increasing safety.
- Powerful halogen lighting to the front and rear provides good visibility over the entire work area.

---

* Optional equipment
Quality, safety, and care for the environment are Volvo’s core values. Indeed, we see our commitment as an integral part of our operation. Few machines have to work in tougher conditions. The ultimate goal is maximized productivity and efficiency for the lowest cost per hour, with minimized environmental impact. For instance, plants and manufacturing processes are certified in accordance with ISO 14001. This is but one example of our tangible commitments and high quality standards. And that’s why Volvo customers get one of the most environmentally considerate and dependable wheel loaders on the market.

Quality
- The air is vented from all major components with easy to replace breather filters, used to prevent dirty air from entering the transmission, axles, fuel tank, and hydraulic tank.
- All electrical wires are routed through sturdy conduits, protected from water, dust, and abrasion with rubberized connectors and terminal caps.
- The L150E is designed from the beginning for easy service and maintenance. Easy access to all components lays the foundation for shorter service and maintenance time and longer life.

Safety
- A dual-circuit service brake system that fulfills all requirements according to ISO 3450, electronic brake test in Conronic and easy to check brake wear indicators are all ways to ensure safe and effective braking.
- Volvo Care Cab is tested and approved according to ROPS ISO 3471 and FOPS ISO 3449 standards.
- Optimized panoramic visibility gives effective control over the entire work area.
- The L150E has steps and platforms that are equipped with anti-slip surfaces and well positioned hand rails.

Environment
- The low rpm, high performance D12C engine meets all current emission requirements according to Tier 2/Stage 2 legislation in the US and Europe.
- The L150E is manufactured in environmentally certified factories according to ISO 14001.
- The L150E is more than 95% recyclable according to material weight.
- Low external and internal sound levels.

A winner for years to come
Your Volvo L150E has to be a winner – both in day-to-day and long-term operations, always operating economically with maximum consideration of the environment. The machinery has to be trusted in all aspects. It must deliver the anticipations of productivity and economy. High quality and easy maintenance are imperative for keeping up the work process. The high performance low emission engine is both good for your business and for the environment.

More than 95% recyclable
The L150E is almost completely recyclable. We see it as a natural step in our commitment. Components such as the engine, transmission and hydraulics are re-engineered and re-used in our Parts Exchange program. The equipment has to be as trustworthy, service-friendly, productive and as cost-effective as possible. Choose this wheel loader for maximum productivity and minimal impact on operator, machinery and environment. Feel free to feel secure in a Volvo L150E.

Comfortable and quiet operator’s environment
The operator inside deserves a comfortable, reliable and safe machine to work with. A good environment helps to spare operator, equipment and nature for years to come. The Volvo L150E is a super competitive wheel loader that puts the operator right in the middle, literally speaking. Tedious vibrations and noise have been heavily reduced. If the operator feels comfortable and secure, it’s easier to stay attentive.
**Brake system**
Service brake: Volvo dual-circuit system with nitrogen charged accumulators. Outboard mounted hydraulically operated, fully sealed oil circulation cooled wet disc brakes. The operator can select automatic declutch of the transmission when braking through Contronic. Parking brake: Fully sealed, wet multi-disc brake built into the transmission. Applied by spring force and electro-hydraulically released with a switch on the instrument panel. Secondary brake: Dual brake circuits with rechargeable accumulators. Either one circuit or the parking brake fulfills all safety requirements. Standard: The brake system complies with the requirements of ISO 3450.

**Electrical system**
Central warning system: Central warning light for the following functions, (buzzer with gear engaged): Engine oil pressure, charge air temperature, transmission oil pressure, brake pressure, parking brake applied, hydraulic oil level, steering pressure, low coolant level, coolant temperature, transmission oil temperature, hydraulic oil temperature, overspeeding in engaged gear, brake charging, axle oil temperature.

**Driving system**
Torque converter: single-stage. Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears between forward and reverse with Pulse Width Modulation (PWM) valve. Gear shifting system: Volvo Automatic Power Shift (APS) with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO. Axles: Volvo fully floating axle shafts with planetary hub reductions and cast steel axle housings. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

**Engine**
9.4 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electronically controlled unit injectors. The engine has wet replaceable cylinder liners and replaceable valve guides and valve seats. The throttle application is transmitted electrically from the throttle pedal or the optional hand throttle. Air cleaning: three-stage. Cooling system: Air-to-air intercooler and hydrostatic, electronically controlled fan.

**Brake system**
Service brake: Volvo dual-circuit system with nitrogen charged accumulators. Outboard mounted hydraulically operated, fully sealed oil circulation cooled wet disc brakes. The operator can select automatic declutch of the transmission when braking through Contronic. Parking brake: Fully sealed, wet multi-disc brake built into the transmission. Applied by spring force and electro-hydraulically released with a switch on the instrument panel. Secondary brake: Dual brake circuits with rechargeable accumulators. Either one circuit or the parking brake fulfills all safety requirements. Standard: The brake system complies with the requirements of ISO 3450.

**Number of brake discs per wheel**
- 1/1

**Accumulators**
- 2x1.0 l and 1x0.5 l

**Accumulators for parking brake**
- 1x0.5 l

**Engine**
- Volvo D9A LB E2
- Max power at: 26.7 r/s (1600 r/min)
- SAE J1995 gross: 211 kW (287 hp)
- ISO 9249, SAE J1349: 210 kW (284 hp)
- Max torque at: 23.3 r/s (1400 r/min)
- SAE J1995 gross: 1440 Nm
- ISO 9249, SAE J1349: 1430 Nm
- Economic working range: 1100–1600 r/min
- Displacement: 9.4 l

**Electrical system**
Central warning system: Central warning light for the following functions, (buzzer with gear engaged): Engine oil pressure, charge air temperature, transmission oil pressure, brake pressure, parking brake applied, hydraulic oil level, steering pressure, low coolant level, coolant temperature, transmission oil temperature, hydraulic oil temperature, overspeeding in engaged gear, brake charging, axle oil temperature.

**Transmission**
- Volvo HTE 210
- Torque multiplication: 2.41
- Maximum speed, forward/reverse:
  - 1: 6.8 km/h
  - 2: 12.8 km/h
  - 3: 26.3 km/h
  - 4: 39.4 km/h
- Measured with tires:
  - 26.5 R25 L3
- Rear axle/axle:
  - Volvo/AWB 40/40
- Rear axle oscillation: ±15°
- Ground clearance at 15° osc.: 610 mm
### Steering system
Steering system: Load-sensing hydrostatic articulated steering. System supply: The steering system has priority feed from a load-sensing axial piston pump with variable displacement. Steering cylinders: Two double-acting cylinders.

<table>
<thead>
<tr>
<th>Steering cylinders</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder bore</td>
<td>90 mm</td>
</tr>
<tr>
<td>Piston rod diameter</td>
<td>50 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>423 mm</td>
</tr>
<tr>
<td>Working pressure</td>
<td>21 MPa</td>
</tr>
<tr>
<td>Maximum flow</td>
<td>190 l/min</td>
</tr>
<tr>
<td>Maximum articulation</td>
<td>±37°</td>
</tr>
</tbody>
</table>

### Cab
Instrumentation: All important information is centrally located in the operator’s field of view on the Contronic monitoring system’s display unit. Heater and defroster: Heater coil with filtered fresh air and fan with four speeds. Defroster vents for all window areas. Operator seat: Ergonomic seat with adjustable suspension and retractable seatbelt. The seat is mounted on a bracket, which is mounted on the rear cab wall. The forces from the retractable seat belt are absorbed by the seat rail. Standard: The cab structure is tested and approved according to ROPS (ISO 3471) and FOPS (ISO 3449). The cab meets all requirements according to ISO 6055 (Operator Overhead Protection - Industrial Trucks) and SAE J386 (Operator Restraint System).

### Hydraulic system
System supply: Two load-sensing axial piston pumps with variable displacement. The steering system always has priority. Valves: Double-acting 2-spool valve. The main valve is controlled by a 2-spool pilot valve. Lift function: The valve has four positions including raise, hold, lower and float. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lifting height. Tilt function: The valve has three functions including rollback, hold and dump. Inductive/magnetic automatic tilt can be adjusted to the desired bucket angle. Cylinders: Double-acting cylinders for all functions. Filter: Full flow filtration through 20 micron (absolute) filter cartridge.

| Working pressure maximum, pump 1 | 25.0 MPa |
| Flow at 10 MPa and engine speed 32 r/s (1900 r/min) | 180 l/min |
| Working pressure, pump 2 | 26.0 MPa |
| Flow at 10 MPa and engine speed 32 r/s (1900 r/min) | 180 l/min |
| Pilot system Working pressure | 3.5 MPa |
| Cycle times Raise* | 5.9 s |
| Tilt* | 2.0 s |
| Lower, empty | 3.7 s |
| Total cycle time | 11.6 s |

* with load as per ISO 14397 and SAE J818

### Lift arm system
Torque Parallel linkage (TP linkage) with high breakout torque and parallel action throughout the entire lifting range.

| Lift cylinders | 2 |
| Cylinder bore  | 160 mm |
| Piston rod diameter | 90 mm |
| Stroke          | 784 mm |
| Tilt cylinder   | 1 |
| Cylinder bore   | 230 mm |
| Piston rod diameter | 110 mm |
| Stroke          | 452 mm |

### Service
Service accessibility: Large, easy-to-open service doors with gas struts. Swing-out radiator grille and cooling fan. Possibility to log and analyze data to facilitate troubleshooting.

### Refill capacities
| Fuel tank | 335 l |
| Engine coolant | 44.5 l |
| Hydraulic oil tank | 156 l |
| Transmission oil | 45 l |
| Engine oil | 39.5 l |
| Axles front/rear | 45/55 l |

### Emergency exits
1

### Sound level in cab according to ISO 6396
LpA 69 dB (A)

### External sound level according to ISO 6395 (Directive 2000/14/EC)
Lwa 107 dB (A)

### Ventilation
9 m³/min

### Heating capacity
11 kW

### Air conditioning (optional)
8 kW
Where applicable, specifications and dimensions are in accordance with ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Tires: 26.5 R25 L3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard boom</strong></td>
<td><strong>Long boom</strong></td>
</tr>
<tr>
<td>B 7030 mm</td>
<td>7550 mm</td>
</tr>
<tr>
<td>C 3550 mm</td>
<td></td>
</tr>
<tr>
<td>D 450 mm</td>
<td></td>
</tr>
<tr>
<td>F 3580 mm</td>
<td></td>
</tr>
<tr>
<td>G 2130 mm</td>
<td></td>
</tr>
<tr>
<td>J 3960 mm</td>
<td>4530 mm</td>
</tr>
<tr>
<td>K 4350 mm</td>
<td>4920 mm</td>
</tr>
<tr>
<td>O 59 °</td>
<td></td>
</tr>
<tr>
<td>Pmax 49 °</td>
<td></td>
</tr>
<tr>
<td>R 44 °</td>
<td>47 °</td>
</tr>
<tr>
<td>R* 48 °</td>
<td></td>
</tr>
<tr>
<td>S 66 °</td>
<td>61 °</td>
</tr>
<tr>
<td>T 54 mm</td>
<td></td>
</tr>
<tr>
<td>U 520 mm</td>
<td></td>
</tr>
<tr>
<td>X 2280 mm</td>
<td></td>
</tr>
<tr>
<td>Y 2950 mm</td>
<td></td>
</tr>
<tr>
<td>Z 3500 mm</td>
<td>3970 mm</td>
</tr>
<tr>
<td>a2 6780 mm</td>
<td></td>
</tr>
<tr>
<td>a3 3380 mm</td>
<td></td>
</tr>
<tr>
<td>a4 ±37 °</td>
<td></td>
</tr>
</tbody>
</table>

* Carry position SAE

**Tires: 775/65 R29**

<table>
<thead>
<tr>
<th>Standard Boom</th>
<th>Long Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 3.1 m²</td>
<td></td>
</tr>
<tr>
<td>B 3860 mm</td>
<td></td>
</tr>
<tr>
<td>C 1760 mm</td>
<td></td>
</tr>
<tr>
<td>D 3280 mm</td>
<td></td>
</tr>
<tr>
<td>E 1420 mm</td>
<td></td>
</tr>
<tr>
<td>F 1820 mm</td>
<td></td>
</tr>
<tr>
<td>G 2580 mm</td>
<td></td>
</tr>
<tr>
<td>H 4990 mm</td>
<td></td>
</tr>
<tr>
<td>I 7270 mm</td>
<td></td>
</tr>
<tr>
<td>J 3110 mm</td>
<td></td>
</tr>
<tr>
<td>K 3540 mm</td>
<td></td>
</tr>
<tr>
<td>L 1890 mm</td>
<td></td>
</tr>
<tr>
<td>M 9690 mm</td>
<td></td>
</tr>
</tbody>
</table>

Operating weight (incl. logging cw 1140 kg): 26 450 kg
Operating load: 7700 kg

**Supplemental Operating Data**

<table>
<thead>
<tr>
<th>Tires 26.5 R25 L3</th>
<th><strong>Standard Boom</strong></th>
<th><strong>Long Boom</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>26.5 R25 L3</td>
<td>775/65 R29</td>
<td>26.5 R25 L3</td>
</tr>
<tr>
<td>Width over tires  mm</td>
<td>+30</td>
<td>+110</td>
</tr>
<tr>
<td>Ground clearance  mm</td>
<td>+30</td>
<td>+25</td>
</tr>
<tr>
<td>Tipping load, full turn kg</td>
<td>+770</td>
<td>+630</td>
</tr>
<tr>
<td>Operating weight kg</td>
<td>+1050</td>
<td>+920</td>
</tr>
</tbody>
</table>

12 (L150E)
### Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.

**Example:** Sand and gravel. Fill factor ~ 105%. Density 1,65 t/m³. Result: The 4.0 m³ bucket carries 4.2 m³. For optimum stability always consult the bucket selection chart.

<table>
<thead>
<tr>
<th>Material</th>
<th>Bucket fill, %</th>
<th>Material density, t/m³</th>
<th>ISO/SAE bucket volume, m³</th>
<th>Actual volume, m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth/Clay</td>
<td>~ 110</td>
<td>- 1.65</td>
<td>3.8</td>
<td>- 4.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 1.60</td>
<td>4.0</td>
<td>- 4.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 1.50</td>
<td>4.2</td>
<td>- 4.6</td>
</tr>
<tr>
<td>Sand/Gravel</td>
<td>~ 105</td>
<td>- 1.70</td>
<td>3.8</td>
<td>- 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 1.65</td>
<td>4.0</td>
<td>- 4.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 1.60</td>
<td>4.2</td>
<td>- 4.4</td>
</tr>
<tr>
<td>Aggregate</td>
<td>~ 100</td>
<td>- 1.80</td>
<td>3.8</td>
<td>- 3.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 1.75</td>
<td>4.0</td>
<td>- 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 1.65</td>
<td>4.2</td>
<td>- 4.2</td>
</tr>
<tr>
<td>Rock</td>
<td>≤100</td>
<td>- 1.70</td>
<td>3.5</td>
<td>- 3.5</td>
</tr>
</tbody>
</table>

The size of rock buckets is optimized for optimal penetration and filling capability rather than the density of the material.

---

* With L5 tires

**) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge. Measured at 45° dump angle. (Spade nose buckets at 42°.)
STANDARD EQUIPMENT

Engine
Three stage air cleaner with ejector and inner filter
Indicator glass for coolant level
Preheating of induction air
Two fuel filters
Oil trap

Electrical system
24 V, prewired for optional accessories
Alternator, 24 V/55 A
Air filter for alternator
Battery disconnect switch
Fuel gauge
Hour meter
Electric horn
Instrument panel with symbols
Lighting:
• Twin halogen front headlights with high and low beams
• Parking lights
• Double brake and tail lights
• Turn signals with flashing hazard light function
• Halogen working lights (2 front and 2 rear)
• Instrument lighting

Contronic monitoring system
ECU with log and analysis system
Contronic display
Fuel consumption
Ambient temperature
Engine shutdown to idle in case of malfunction indication:
• High engine coolant temperature
• Low engine oil pressure
• High transmission oil temperature
Start interlock when gear is engaged
Brake test
Test function for warning and indicator lights
Warming and indicator lights:
• Charging
• Oil pressure engine
• Oil pressure, transmission
• Brake pressure
• Parking brake

• Hydraulic oil level
• Axle oil temperature
• Primary steering
• Secondary steering
• High beams
• Turn signals
• Rotating beacon
• Preheating coil
• Differential lock
• Coolant temperature
• Transmission oil temperature
• Brake charging
Level warnings:
• Engine oil level
• Coolant level
• Transmission oil level
• Hydraulic oil level
• Washer fluid level

Drivetrain
Automatic Power Shift with operator-controlled declutch function for transmission cut-out when braking and mode selector with AUTO function
Fully automatic shifting gears 1–4
PWM-control between different gear positions
Forward and reverse switch by lever console
Differential:
front: 100% hydraulic diff lock
rear: conventional

Brake system
Wet oil circulation cooled disc brakes on all four wheels
Dual brake circuits
Dual service brake pedals
Secondary brake system
Parking brake, ex-hydraulic
Brake wear indicator

Cab
ROP5 (ISO 3471), FOPS (ISO 3449)
Single key kit door/start
Acoustic inner lining
Ashtray
Cigarette lighter

OPTIONAL EQUIPMENT
(Standard on certain markets)

Service and maintenance
Tool box, lockable
Tool kit
Automatic lubrication system
Automatic lubrication system inclusive long boom
Automatic lubrication system for attachment bracket, welded
Refill pump for automatic lubrication system
Wheel nut wrench kit
Grease nipple guards
Oil sampling valve

Engine equipment
Engine block heater, 230 V
Air pre-cleaner, oil bath type
Air pre-cleaner, turbo type
Air pre-cleaner, S-Flyone type
Hand throttle control
Fuel filter strainer
Coolant filter
Fuel filter, extra large with water trap
Fuel filter, with water trap and heating
Radiator, corrosion protected
Fan intake protection
Reversible cooling fan
Reversible cooling fan in combination with axle oil cooler

Electrical system
Alternator, 80 A
Working light, attachments
Working lights front, extra
Working lights rear, extra
Working lights front, on cab, dual
Working lights front, high intensity
License plate holder, lighting
Asymmetrical lights for left-hand traffic
Reverse alarm
Reverse light
Shortened headlight support brackets
Warning beacon, rotating, collapsible
Battery disconnect switch, additional in cab
Side marker lamps

Cab
Installation kit for radio
Radio with tape recorder
Radio with CD-player

Sun blinds, front and rear windows
Sun blinds, side windows
Sliding window, right
Sliding window, door
Retractable hipbelt, longer and wider than standard
Air conditioning with corrosion prot. condenser
Air conditioning with corrosion prot. condenser and automatic temp. control (ATC)
Ventilation air filter for work in asbestos environment
Operator’s seat with low backrest
Operator’s seat with high backrest and electrical heating
Operator’s seat air suspended with high backrest and electrical heating
Instructor’s seat
Armrest (left) for operator seat
Adjustable steering wheel
Steering wheel knob
Noise reduction kit
Rear view camera incl. monitor
Rear view mirrors, el. heated
Cab ladder, rubber suspended

Drivetrain
Limited slip rear
Speed limiter 20 km/h
Speed limiter 30 km/h
Wheel/axle seal guards

Brake system
Oil cooler and filter for front and rear axle
Oil cooler and filter for front and rear axle in comb. with reversible fan

Hydraulic system
Single lever control
Single lever control for 3rd hydraulic function
3rd hydraulic function
3rd hydraulic function for long boom
3rd-4th hydraulic function
Boom Suspension System
Biodegradable hydraulic fluid
Attachment bracket, welded
Arctic kit, attachment locking hoses and 3rd hydraulic function
Arctic kit, pilot hoses and brake accm. incl. hydraulic oil
Separate attachment locking, standard boom
Separate attachment locking, long boom
Return-to-sig

Lockable door
Cab heating with filter, fresh-air inlet and defroster
Floor mat
Interior light
Interior rear-view mirror
2 exterior rear-view mirrors
Openable window right-hand side
Tinted safety glass
Hp retractable seatbelt (SAE J388)
Adjustable lever console
Ergonomically designed operator’s seat with adjustable suspension
Storage compartment
Sun visor
Beverage holder
Windshield wipers front and rear
Windshield wipers front and rear
Interval function for front and rear windshield wipers
Service platforms with anti-slip surfaces on front and rear fenders
Speedometer

Hydraulic system
Main valve, 2-spool
Pilot valve, 2-spool
Variable displacement axial piston pumps (3) for:
• working hydraulics
• steering system, pilot hydraulics and brakes
• fan motor
Boom lowering system
Boom kickout, automatic, adjustable
Bucket positioner, automatic with position indicator, adjustable
Hydraulic oil cooler

External equipment
Noise and vibration dampening suspension of cab, engine and transmission
Lifting lug
Easy-to-open side panels
Frame steering, joint lock
Vandalism lock prepared for batteries and engine compartment
Towing hitch

External equipment
Long boom
Mudguards widener front/rear
Mudguards, fixed front and swing out rear
Deleted front mudguards and rear wideners
Logging overweight

Protective equipment
Guards for front headlights
Guards for tallights
Guards for tallights, heavy-duty
Guards for side and rear windows
Guards for radiator grille
Windshield guard
Bellyguard front
Bellyguard rear
Bellyguard, oil pan
Cover plate front frame, heavy-duty
Cover plate, under cab
Guards for steer cylinder
Guards for boom cylinder hose and tube
Corrosion protection, painting of machine
Corrosion protection, painting of attachment bracket
Bucket teeth protection

Other equipment
Comfort Drive Control, CDC
Secondary steering
Sign, slow moving vehicle
Sound decal, EU CE-marking

Tires
775/65 R29
265 R25

Attachments
Bucket
• Straight with/without teeth
• Spade nose with/without teeth
• High tipping
• Light materials
• Bolt-on and weld-on bucket teeth
Cutting edge in three sections, bolt-on
Fork equipment
Material handling arm
Log grapples
Boom Suspension System (BSS)*
BSS utilizes gas/oil accumulators connected to the lift cylinders to absorb shocks and smooth out rough roads for faster cycle times, less spillage and increased operator comfort.

Automatic Lubrication System*
Our factory fitted Automatic Lubrication System takes care of greasing while the machine is in operation. This means less downtime for scheduled maintenance and more time for productive work.

Comfort Drive Control (CDC)*
CDC significantly reduces repetitive and tiring steering wheel movements. The operator can shift and steer easily with the aid of controls integrated in the left armrest.

3rd and 4th hydraulic functions*
Volvo wheel loaders can be equipped with third and fourth hydraulic functions, which are operated with additional control levers. These functions are necessary when there’s a need to operate a third and fourth hydraulic function at the same time, such as when using a timber grapple with hydraulic heel kick-out.

Volvo genuine attachments
Volvo offers a wide range of attachments and wear parts, including the new Volvo Tooth System. Volvo genuine attachments are designed for all types of applications, from handling timber to breaking out hard and rocky materials, such as shot rock.
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.