When you need to get it done, the L70E loads it, lifts it and moves it with precision and quickness. Providing all the power you need to meet the demands of tough conditions found in pipeline construction and earth moving, combined with the ability to maneuver in the tight work areas often found in residential construction, the L70E is the producer that delivers for a wide range of industries.

Volvo has developed and manufactured wheel loaders for over 50 years. The latest experiences and leading technology have been used in designing the L70E. It is the true all-round machine, giving you countless possibilities to expand your application range. With the Volvo engine and Automatic Power Shift (APS) gearshifting system, you get optimal performance and low fuel consumption in all types of applications. The Torque Parallel Linkage, hydraulic attachment bracket and wide range of Volvo genuine attachments further increase the machine's versatility.

**Gets more done**
You'll find the L70E 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 L70E, everybody is a winner. Quite simply, a great deal for your money.

---

**Specifications L70E**
- **Engine:** Volvo D6D LB E2
  - Max power at 28,3 r/s (1,700 rpm)
  - SAE J1995 gross 113 kW (154 hp)
  - ISO 9249, SAE J1349 net 112 kW (152 hp)
- **Breakout force:** 101,1 kN* (22,730 lbf)
- **Static tipping load at full turn:** 8 000 kg* (17,640 lb)
- **Buckets:** 2,0 – 6,4 m³ (2.6–8.4 yd³)
- **Log grapple:** 0,9 – 1,5 m² (9.7–16.1 ft²)
- **Operating weight:** 12,7 – 14,0 t (28,000–30,860 lb)
- **Tires:** 20.5 R25, 600/65 R25

* Bucket: 2,2 m³ (2.9 yd³) straight edge with bolt-on edges.
Load more tons per hour with the Volvo L70E. Its powerful engine and the 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 L70E a precision performer.

**Volvo engine delivers rapid response for faster work cycles**
L70E is equipped with Volvo’s 6-liter engine, correctly matched to the Volvo transmission, axles and hydraulic system for unbeatable productivity and economy. The electronically-controlled engine transmits high torque at low engine speeds for faster work cycles and fuel efficient operation.

**Responds to your commands**
The Volvo automatic countershaft transmission provides smooth and effective gear shifting. All the operator has to do is select forward, reverse or kickdown 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. In addition, TP Linkage provides excellent parallel movement, making it possible for the L70E to perform well in applications where other manufacturers need two different machine types.

**Hydraulics that make sense**
The Volvo L70E features an intelligent load-sensing system for both the main and steering hydraulics. One variable piston pump provides 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 D6D, 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**
- Volvo’s well proven countershaft transmission provides optimal performance in all applications.
- 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.

**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.
**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.
AN ALERT OPERATOR IS A PRODUCTIVE 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 its ingenious rubber mounting system 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.
• Large windshields, 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.

**A winner for years to come**
Your Volvo L70E 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.

**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 L70E 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.

**More than 95% recyclable**
The L70E 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 L70E.

**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 L70E 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 Contronic 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 L70E has steps and platforms that are equipped with anti-slip surfaces and well positioned hand rails.

**Environment**
- The low rpm, high-performance D6D engine meets all current emission requirements according to stage 2 legislation in Europe and the US.
- The L70E is manufactured in environmentally certified factories according to ISO 14001.
- The L70E is more than 95% recyclable according to material weight.
- Low external and internal sound levels.
VOLVO L70E IN DETAIL

**Engine**
6 liter, 6-cylinder straight turbocharged diesel engine with electronically-controlled unit pumps and conventional injectors. The engine has dry 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.

Engine
- Volvo D6D LB E2
- Max power at 28.3 r/s (1,700 rpm)
- SAE J1995 gross 113 kW (154 hp)
- SAE J1349 net 112 kW (152 hp)
- Max torque at 23.3 r/s (1,400 rpm)
- SAE J1995 gross 739 Nm (545 lbf ft)
- SAE J1349 net 732 Nm (540 lbf ft)
- Economic working range 1100–1600 rpm
- Displacement 5.7 l (348 in³)

**Drivetrain**
Torque converter: single-stage.
Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears between forward and reverse.
Gearshifting system: Volvo Automatic Power Shift (APS) with mode selector and four different gearshifting 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.

Transmission
- Volvo HT 95
- Torque multiplication 2.66:1
- Maximum speed, forward/reverse
  - 1st: 7.4 km/h (4.6 mph)
  - 2nd: 14.3 km/h (8.9 mph)
  - 3rd: 26.5 km/h (16.5 mph)
  - 4th: 44.0 km/h* (27.3 mph)*

Measured with tires
- 20.5 R25 L2

Front axle/rear axle
- Volvo/AWB 25/20
- Rear axle oscillation ±13°

Ground clearance at 13° osc. 470 mm (18.5 in)

* local restrictions may apply

**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 disengagement of the transmission when braking using Contronic. Parking brake: Dry disc brake mounted on the transmission output shaft. Applied by spring force and released by oil pressure 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
- Front/rear 1/1

Accumulators
- 2×0.5 l (2×0.13 US gal)
- 1×1.0 l (1×0.26 US gal)

**Electrical system**
Central warning system: Central warning light for the following functions (buzzer with gear engaged): Engine oil pressure, charge-air temperature, fuel 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.

Voltage
- 24 V

Batteries
- 2×12 V

Battery capacity
- 2×110 Ah

Cold cranking capacity, approx
- 690 A

Reserve capacity, approx
- 206 min

Alternator rating
- 1920 W/80 A

Starter motor output
- 5.4 kW (7.3 hp)

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

**Accumulators**
- 2×0.5 l (2×0.13 US gal)
- 1×1.0 l (1×0.26 US gal)
**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>70 mm (2.75 in)</td>
</tr>
<tr>
<td>Piston rod diameter</td>
<td>45 mm (1.77 in)</td>
</tr>
<tr>
<td>Stroke</td>
<td>386 mm (15.2 in)</td>
</tr>
<tr>
<td>Relief pressure</td>
<td>21 MPa (3,046 psi)</td>
</tr>
<tr>
<td>Maximum flow</td>
<td>155 l/min (40.9 US gpm)</td>
</tr>
<tr>
<td>Maximum articulation</td>
<td>±40°</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 seatbelt 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: One load-sensing axial piston pump 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 lift, hold, lower and float. Inductive/magnetic automatic boom kick-out 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.

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

### Lift cylinders
- **Cylinder bore**: 100 mm (3.9 in)
- **Piston rod diameter**: 70 mm (2.75 in)
- **Stroke**: 756 mm (29.8 in)

### Tilt cylinder
- **Cylinder bore**: 160 mm (6.3 in)
- **Piston rod diameter**: 90 mm (3.5 in)
- **Stroke**: 432 mm (17.0 in)

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

**Refill capacities**
- **Fuel tank**: 197 l (52 US gal)
- **Engine coolant**: 30 l (7.9 US gal)
- **Hydraulic oil tank**: 105 l (27.7 US gal)
- **Transmission oil**: 18 l (4.8 US gal)
- **Engine oil**: 20 l (5.3 US gal)
- **Axles front/rear**: 30/25 l (7.9/6.6 US gal)

### Relief pressures
- **Flow pressure maximum**: 260 MPa (3,771 psi)
- **Flow**:
  - At 10 MPa (1,450 psi) and engine speed 32 r/s (1,900 rpm)
- **Pilot system relief pressure**: 3.5 MPa (50 psi)
- **Cycle times**
  - Raise*: 5.3 s
  - Tilt*: 1.3 s
  - Lower, empty: 2.7 s
  - Total cycle time: 9.3 s

* with load as per ISO 14397 and SAE J818

**Emergency exits**: 1
**Sound level in cab according to ISO 6396**: LpA 70 dB (A)
**External sound level according to ISO 6395 (Directive 2000/14/EC)**: Lwa 105 dB (A)
**Ventilation**: 9 m³/min (318 ft³/min)
**Heating capacity**: 11 kW (37,500 Btu/h)
**Air conditioning (optional)**: 8 kW (27,300 Btu/h)
Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.

### SPECIFICATIONS

**Tires: 20.5 R25 L2**

<table>
<thead>
<tr>
<th>Standard boom</th>
<th>Long boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 5980 mm</td>
<td>19'7&quot;</td>
</tr>
<tr>
<td>C 3000 mm</td>
<td>9'10&quot;</td>
</tr>
<tr>
<td>D 450 mm</td>
<td>1'8&quot;</td>
</tr>
<tr>
<td>F 3260 mm</td>
<td>10'8&quot;</td>
</tr>
<tr>
<td>G 2130 mm</td>
<td>7'0&quot;</td>
</tr>
<tr>
<td>J 3580 mm</td>
<td>11'9&quot;</td>
</tr>
<tr>
<td>K 3870 mm</td>
<td>12'8&quot;</td>
</tr>
<tr>
<td>O 56°</td>
<td>52°</td>
</tr>
<tr>
<td>Prmax 46°</td>
<td>45°</td>
</tr>
<tr>
<td>R 42°</td>
<td>44°</td>
</tr>
<tr>
<td>R1* 46°</td>
<td>49°</td>
</tr>
<tr>
<td>S 69°</td>
<td>73°</td>
</tr>
<tr>
<td>T 102 mm</td>
<td>0'4&quot;</td>
</tr>
<tr>
<td>U 390 mm</td>
<td>1'3&quot;</td>
</tr>
<tr>
<td>X 1930 mm</td>
<td>6'4&quot;</td>
</tr>
<tr>
<td>Y 2470 mm</td>
<td>8'1&quot;</td>
</tr>
<tr>
<td>Z 3200 mm</td>
<td>10'6&quot;</td>
</tr>
<tr>
<td>a2 5350 mm</td>
<td>17'7&quot;</td>
</tr>
<tr>
<td>a3 2890 mm</td>
<td>9'6&quot;</td>
</tr>
<tr>
<td>a4 ±40°</td>
<td>40°</td>
</tr>
</tbody>
</table>

* Carry position SAE

**Tires: 20.5 R25 L2**

| A* 2150 kg | 4,740 lb |
| B* 1710 kg | 3,770 lb |
| C* 1400 kg | 3,090 lb |
| D 2710 mm | 8'11" |
| E 2100 mm | 6'11" |
| F 1540 mm | 51 |
| G 3310 mm | 10'10" |
| H 4350 mm | 14'3" |
| I 5480 mm | 18'0" |
| J 1260 mm | 4'2" |
| K 1740 mm | 5'9" |
| L 2260 mm | 7'5" |
| M 2170 mm | 7'1" |
| N 3090 mm | 10'2" |
| O 4100 mm | 13'5" |
| P 1520 mm | 5'0" |
| Q 5290 mm | 17'4" |
| R 6160 mm | 20'3" |
| S 7120 mm | 23'4" |

Order No: 92007  
Operating weight: 12 620 kg (27,820 lb)

**Fork tine order No (R/L): 93525/93526**  
Length: 1200 mm | 3'11" |
Fork frame order No: | 80041 |
Width: 1500 mm | 4'11" |
Rated operating load*: 4740 kg | 10,450 lb |
at load rated distance: 600 mm | 2'0" |
Operating weight: 12 680 kg | 27,950 lb |

* acc. std EN 474-3, firm and level ground
### 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 2,865 lb/yd³. Result: The 2.6 yd³ bucket carries 2.7 yd³. For optimal stability always consult the bucket selection chart.

### Tires 20.5 R25 L2

**Bolt-on edges**

<table>
<thead>
<tr>
<th>Material, Bucket fill,%</th>
<th>ISO/SAE bucket volume, m³</th>
<th>Actual volume, m³</th>
<th>yd³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth/Clay - 110</td>
<td>-1.65 - 2.780</td>
<td>20</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td>-1.55 - 2.610</td>
<td>22</td>
<td>2.9</td>
</tr>
<tr>
<td></td>
<td>-1.40 - 2.360</td>
<td>24</td>
<td>3.0</td>
</tr>
<tr>
<td>Sand/Gravel - 105</td>
<td>-1.70 - 2.865</td>
<td>20</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td>-1.60 - 2.700</td>
<td>22</td>
<td>2.9</td>
</tr>
<tr>
<td></td>
<td>-1.45 - 2.444</td>
<td>24</td>
<td>3.0</td>
</tr>
<tr>
<td>Aggregate - 100</td>
<td>-1.80 - 3.035</td>
<td>20</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td>-1.70 - 2.865</td>
<td>22</td>
<td>2.9</td>
</tr>
<tr>
<td></td>
<td>-1.55 - 2.613</td>
<td>24</td>
<td>3.0</td>
</tr>
<tr>
<td>Rock</td>
<td>-1.70 - 2.865</td>
<td>1.8</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Note: This only applies to genuine Volvo attachments.

### Material density (lb/yd³)

- Sand and gravel: 2,865
- Earth/Clay: 1,600
- Aggregate: 1,800
- Rock: 1,700

### Supplemental Operating Data

<table>
<thead>
<tr>
<th>Tires 20.5 R25 L2</th>
<th>Standard boom</th>
<th>Long boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width over tires mm</td>
<td>+60</td>
<td>+60</td>
</tr>
<tr>
<td>Ground clearance mm</td>
<td>-30</td>
<td>-1.18</td>
</tr>
<tr>
<td>Tipping load, full turn kg</td>
<td>+40</td>
<td>+88</td>
</tr>
<tr>
<td>Operating weight kg</td>
<td>+30</td>
<td>+66</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT

Engine
Three-stage air cleaner with ejector and inner filters
Indicator glass for coolant level
Preheating of induction air
Muffler, spark arresting
Fuel fill strainer
Coolant filter
Fuel filter extra large with water trap
Oil trap

Electrical system
24 V, pre-wired for optional accessories
Alternator, 24 V 80 A
Exchange battery
Battery disconnect switch
Battery boxes, steel
Fuel gauge
Temperature gauge, transmission oil
Temperature gauge, engine coolant
Hour meter
Electric horn
Reverse alarm, self-adjusting
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 work lights (2 front and 2 rear)
• Instrument lighting

Con tronic monitoring system
ECDU with log and analysis system
Con tronic 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
Warning and indicator lights:
• Charging
• Oil pressure engine
• Oil pressure, transmission

Drive train
Automatic Power Shift with operator-controlled
disengagement function for transmission cut-out when
braking and mode selector with AUTO function
Transmission cut-out with single lever control
Forward and reverse switch by lever console
Differential:
Front: 100% hydraulic diff lock
Rear: conventional

Tires
20.5 R25

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

Cab
ROPS (ISO 3471), FOPS (ISO 3449)
Lock kit, one combination

Electrical system
Reversal cooling fan
Exhaust heat insulation
Fuel filter with water trap and heating
Air pre-cleaner, Sy-Klone type, one stage
Oil sample valve
Automatic lubrication system, stainless steel

Drivetrain

Hydraulic system
Variable displacement axial piston pumps (2)
Steering system, pilot hydraulics, working hydraulics and
brakes
Fan motor
Boom lowering system

External equipment
Noise and vibration damping suspension of cab, engine
and transmission

Protection equipment
Cover plates, rear frame

Other equipment
Decals, USA

OPTIONAL EQUIPMENT

Service and maintenance
Toolbox, lockable
Tool kit
Wheel nut wrench kit
Automatic lubrication system
Automatic lubrication system, stainless steel
Automatic lubrication system incl. long boom
Automatic lubrication system for attachment bracket, cast
Automatic lubrication system, stainless steel, for
attachment bracket, cast
Refill pump for automatic lubrication system

Engine equipment
Engine block heater, 120 V
Engine auto shutdown
Air pre-cleaner, oil-bath type
Air pre-cleaner, turbo type, one stage
Air pre-cleaner, Sy-Klone type, one stage
Fuel filter with water trap and heating
Exhaust heat insulation
Heat throttle control
Radiator, hydraulic oil cooler and fuel cooler, corrosion-protected
Fan air intake protection, extra close-meshed
Reversible cooling fan

Electrical system
Alternator, 80 A, including air filter
Work light, attachments
Work lights front, extra
Work lights rear, extra
Work lights front, on cab, dual
Work lights front, high intensity
License plate holder, lighting
Reverse lights, automatic
Warning beacon, rotating, collapsible
Warning beacon, flashing strobe light
Battery disconnect switch, additional in cab

Cab
Installation kit for radio, 11 A 12 V, left and right in cab
Installation kit for radio, 20 A 12 V
Radio with cassette player
Radio with CD-player
Sun blinds, front and rear windows
Sun blinds, side windows
Windshield wiper, right side
Retractable lap-type belt, longer and wider than standard
Air conditioning
Air conditioning with corrosion-protected condenser

Hydraulic system

External equipment
Long boom
Front and rear fenders with wideners for 600/65 R25
Front and rear fenders with wideners for 600/65 R25
Tires
Full fenders for 20.5 R25 tires
Full fenders for 600/65 R25 tires

Mud flaps for full fenders
Delete front fenders and rear fender wideners
Logging counterweight (with approval)

Other equipment
Comfort Drive Control (CDC)
Secondary steering
Sign, slow moving vehicle
Decals English/Spanish

Tires
600/65 R25

Attachments
Bucket
• Straight with teeth or bolt-on edges
• Spade nose
• High tipping
• Light materials
• Grading

Bevel-on or weld-on bucket teeth
Cutting edge in three sections, bolt-on, reversible
Fork equipment
Material handling arm
Log grapples
Snow blade
Broom
Sand spreading bucket
Bale clamp
Drum rotator

Hydraulic system
Main valve, 2-spool
Pilot valve, 2-spool
Variable displacement axial piston pumps (2) for:
• steering system, pilot hydraulics, working hydraulics and
brakes
• fan motor

Boom kick-out, automatic, adjustable
Bucket positioner, automatic with position indicator, adjustable
Hydraulic oil cooler
Attachment bracket, cast, visibility-optimized
Separate attachment locking, standard boom

External equipment
Noise and vibration dampening suspension of cab, engine
and transmission

Protection equipment
Cover plates, rear frame

Other equipment
Decals, USA
**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 sweeper attachment or a timber grapple with hydraulic heel kick-out.

* Optional equipment

**Genuine Volvo attachments**
Genuine Volvo attachments and wear parts, including the new Volvo Tooth System, are designed as an integral part of the loader, making the L70E a swift and versatile machine in a wide range of applications.

**Long boom**
A long boom gives the extra dump height and reach necessary for loading high trucks or feeders.
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.**

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.