VOLVO

Volvo Wheel Loaders 34-39 t / 74.957-85.980 lb 415 hp

# L260H

Volvo Construction Equipment

# A class of its own

Committed to its legacy, Volvo was the first to present a 35 tonnes (77.162 lbs) wheel loader to the industry in 2011 – with the L250G. Created with the customer for the customer, Volvo brings the next generation wheel loader – the L260H.

**1954**

The world's first wheel loader to feature a parallel lift arm system and attachment bracket with quick coupler – the H-10

**1973**

The first wheel loader with direct injected turbo engine – Volvo BM 1641

Volvo introduced the world's first truly low-emission diesel engines in construction equipment (1974)

**1981**

Volvo introduced the world's first automatic gear shifting system (Automatic Power Shift) and load sensing hydraulic technology

**1988**

Comfort Drive Control

**1990**

Boom suspension system

Volvo patented Torque Parallel linkage (1991)


## Smarter, stronger, faster

In an industry that's always evolving, with growing business demands, customers need a machine they can rely on. An asset to your operation, the L260H is a reliable machine, which has been upgraded with innovative technologies and increased payload capacity, for greater productivity. Bringing you quality as standard and so much more, unlock the full potential of your machine through our dealer network.

## Progress is in our DNA

Since introducing our first wheel loader, Volvo has continued to refine its concept for more than half a century. Over the years, we have revolutionized our machines, bringing customers unparalleled productivity and efficiency.

**2009**
Volvo sets the standard for the attachment bracket (ISO 23727)

**2010**
OptiShift

CareTrack

**2011**
Introduction of the L250G – the first in its class

**2016**
Load Assist, powered by the award-winning Volvo Co-Pilot

**2017**
New generation OptiShift

Second generation load sensing hydraulics – Patent pending

L260H

# Get it done, faster

Primed for productivity, the innovative L260H combines the latest Volvo technology with power and upgraded components to help you increase your payload. To achieve ultimate performance, select from a range of tailor made Volvo attachments.

**Volvo engine**

Engineered for efficiency and productivity, the L260H is fitted with a powerful D13 engine, delivering 6% more power and 5% more torque than the L250H.

**Fast cycle times**

Achieve shorter cycle times with next generation load sensing hydraulics, designed to enhance the responsiveness of attachments and improve the lifting and lowering speed of the boom.

**New transmission**

For ultimate performance, the L260H has been upgraded with the new HTL310 transmission, which works in harmony with the powerful engine and axels. The new converter delivers increased torque output, resulting in better performance. For faster acceleration and smooth operation, the steps between gears have been reduced.

**Matched and attached**

Get the most out of your L260H with our range of purpose-built attachments, perfect for applications such as quarrying, aggregates, mining and heavy infrastructure. Form one solid and reliable unit with attachments that are ideally matched by size and design to your machine's parameters – including link-arm geometry, and breakout and lifting forces.

# BOOST YOUR PRODUCTIVITY BY UP TO 15%

Increase your productivity with the L260H. Boasting up to 15% greater productivity than its forerunner, thanks to the increased wheel base (50mm (2")), and optimized weight distribution of the front frame and lifting arm system, enabling the use of larger buckets.

# Smarter operation

Engineered for efficient and smart work, the L260H is fitted with new generation hydraulics and improved technology. Enhanced by Load Assist and Volvo Site Simulation, the intelligent systems offer valuable insight about your operations, reducing fuel consumption and increasing productivity.

**Increase your fuel savings by 10%**

Do more with less fuel, thanks to a powerful engine and new generation hydraulics, which save hydraulic pump power for other functions, by reducing fluid flow when lowering and dumping. Coupled with the new dry P-Brake, which eliminates drag losses caused by the internal wet multi-disk brake.

**New generation OptiShift**

For improved cycle times and greater fuel efficiency, customize the lock-up engagement of your machine with new generation OptiShift. The improved technology integrates the Reverse By Braking (RBB) function – patented by Volvo – and the new torque converter with lock-up, creating a direct drive between the engine and transmission, reducing fuel consumption.

**Fuel Report**

Identify any inefficiency with Fuel Report, designed to help you reduce the industry's number one operational cost factor. With detailed machine data, Fuel Report supports in taking corrective actions to reverse machine issues and improve fuel efficiency.

**Eco pedal**

Save on machine wear and increase fuel efficiency with the eco pedal. Uniquely designed by Volvo, the eco pedal encourages economical operation, by applying a mechanical push-back force in response to excess use of the accelerator.

# Load Assist

Optimize your load cycles with Load Assist, powered by Volvo Co-Pilot – the 10" in-cab display. Gain access to a set of smart apps and boost the efficiency of your operation. When installed, the rear-view camera and radar detect system are now integrated into the Volvo Co-Pilot.

**On-Board Weighing**

Make overloading, underloading, reweighing and waiting times a thing of the past with On-Board Weighing, providing real-time insight into the bucket's load. What's more, with the new Simple Mode, it has never been easier to start reaping the benefits of On-Board Weighing.


**Operator Coaching**

Operator Coaching helps to ensure operators are using their Volvo machine to its full potential. The intuitive app provides real-time guidance to operators, helping them understand how their actions influence machine productivity and efficiency, as well as identify areas for improvement or changes in their technique.


**Tire Pressure Monitoring System**

With the tire pressure monitoring app, you can check the condition of your tires from the comfort of the cab. Providing real-time information on tire pressure and temperature, the system saves time during machine inspections and can prolong tire lifetime.


**Map**

Get accurate machine positioning with Map, a clever app that allows operators to monitor on-site traffic in real-time. Not only does this give operators an improved orientation of the site they are working on, but it allows them to proactively adjust their driving behavior according to traffic conditions.

# Stronger

Unlock the full potential of your machine and take on demanding applications, with a range of purpose built attachments. Volvo can custom build attachments to your specific requirements, increasing your productivity.

**Rehandling bucket**

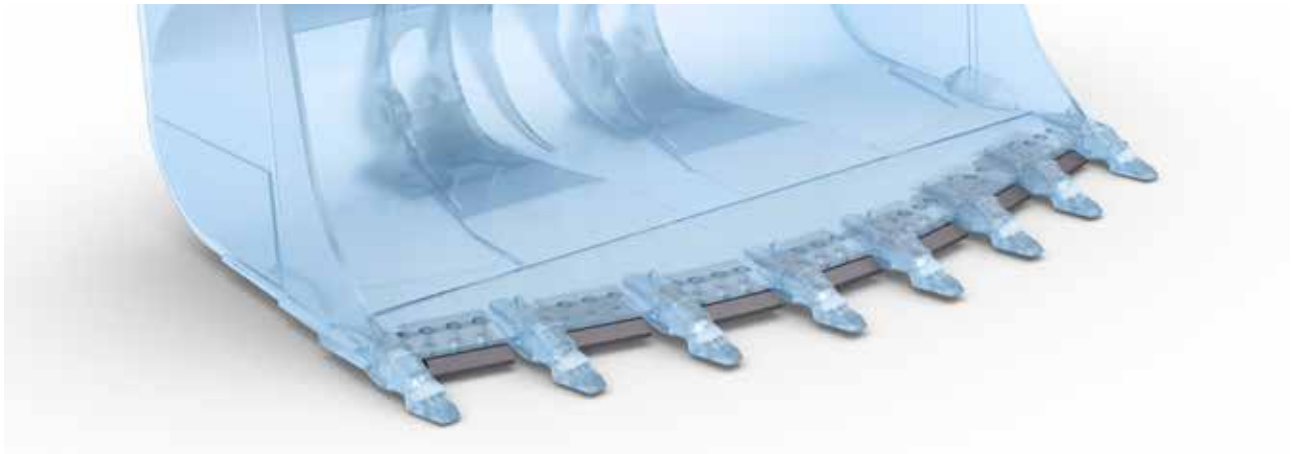
Experience up to 5% greater productivity with the new 7.3 $m^3$ (9.6 $yd^3$) Volvo Rehandling bucket. The redesigned bucket is easier to fill and minimizes spillage, thanks to new convex sides and an improved spill guard. To prevent spillage and absorb shocks, opt for the Boom Suspension System, which automatically engages, depending on gear or speed selection.

**Proven Z-bar linkage**

For strength in demanding applications, Volvo's proven Z-bar linkage provides high breakout force. The robust lifting arm enables fully loaded buckets to be elevated to maximum height and fast hydraulic speeds offer quick cycle times. For long lasting performance, the lifting arm has double sealing on each of the pins.

**Protect your bucket**

Extend the life of your bucket with a choice of reinforcement options. Bolt-on edges protect the bottom edge of the bucket, while segments protect the cutting edge of the bucket, increasing durability.



# ROCK BUCKET

For easier filling and greater productivity, the new Volvo Rock bucket boasts a longer floor and optimized radius and holds 11.5% more material than before. For tunneling applications, Volvo also offers Side Dump Rock buckets.

# Intelligently productive

## Boost your productivity by up to 15%

- 6% more power and 5% more torque than the L250H
- Increased wheel base, optimized weight distribution
- Next generation load sensing hydraulics
- New transmission – new converter and gear ratio
- Matched Volvo attachments

## Built for the job

- Bucket leveling function
- Three hydraulic modes
- Choice of a single or multi levers
- Comfort Drive Control
- Collision Mitigation System (option)

## Increase your fuel savings by 10%

- Rimpull control
- New generation OptiShift
- Dry P-brake
- Saved hydraulic pump power
- Eco pedal
- Load Assist, powered by Volvo Co-Pilot

## Fully loaded

- Redesigned Rock bucket – holds 11.5% more material
- New Rehandling bucket – up to 5% greater productivity
- Custom built attachments
- Z-bar lifting arm with double sealing on each pin


## Maximize your uptime

- Quicker hydraulic oil fill thanks to new mounted nipple
- Delayed engine shutdown
- Easy access to the P-brake and BSS accumulators
- Tilting cab – 30° or 70°
- Electronically-operated engine hood

## Volvo Services

- Genuine Volvo Parts
- Operator training
- CareTrack
- Fuel Report
- ActiveCare

# Boost your performance

Built with the customer, for the customer, the L260H boasts a range of features to enhance your operating experience. For increased productivity, the Volvo cab can be customized to your preference and additional cameras offer greater visibility.

**Comfortably productive**

Customize your machine and ensure precise control of hydraulic functions, with the choice of single or multi levers. To get the most out of each operation, select from three hydraulic modes, according to your preferred responsiveness. To reduce operator fatigue and improve productivity, Comfort Drive Control gives you the opportunity to steer the machine from a small lever.

**Visibility**

To enhance visibility, the L260H has new rear-view mirrors and can be equipped with a rear-view camera. Optimized by the radar detect system, which works with the camera to give a visual and audible alert to the operator of unseen on-coming objects. Orange handrails and steps have been placed on the machine, intended to stand out to the operators and maintenance staff.


**Bucket leveling function**

Take your productivity to the next level with the new bucket leveling function. Automatically return the bucket to level from both dump and curl positions, enhancing operator performance.

**Collision Mitigation System**

The Collision Mitigation System has been developed to support the safe operation of Volvo Wheel Loaders. The optional system assists operators while working in reverse by automatically applying the brakes when the machine approaches an obstacle, helping to reduce the risk or consequences of collisions and enhance jobsite safety.


# THE OPERATOR'S CHOICE

Operate in comfort from the best cab on the market, the Volvo cab can be equipped with a new adjustable seat. Access the cab safely and effortlessly using the steps and open the door with ease, thanks to the optional remote-control opener.

# Maximize your uptime

Offering strength in demanding applications, the L260H is built to last. Maintain the life of your machine with simple serviceability and proactive dealer support, as well as flexible maintenance and repair plans.

**Improved component access**

Minimize downtime and increase component life with easier access to the Boom Suspension System accumulators – now placed on the outside of the front frame – and P-brake, which is now external.


**Durable by design**

Designed with durability in mind, the L260H is built with a strong frame structure, ideally-matched to Volvo powertrain. The hydraulically-driven cooling fan regulates component temperature and automatically reverses, permitting self-cleaning of the cooling units.

**Delayed shutdown**

Reduce the wear on your engine with new delayed engine shutdown, which can be scheduled to activate automatically by the operator. The intelligent function turns off the machine when the turbo charger has cooled down to the appropriate temperature, reducing component wear.

**Here to support you**

Maintain productivity and machine uptime with our range of readily available Genuine Volvo Parts – all backed by Volvo warranty. We're here to help you stay on track, offering flexible maintenance and repair plans.


# INDUSTRY LEADING SERVICEABILITY

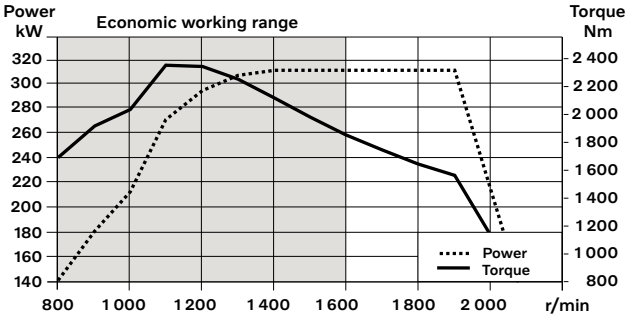
For unrestricted access to vital components, the Volvo cab can be tilted to either a 30º or 70º angle. For improved serviceability and easy access to the engine, the wide-opening engine hood is operated electronically.

# Volvo L260H in detail

## Engine

V-ACT Stage IIIA, 13 liters (3,4 gal), 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electonically controlled unit injectors. The engine has wet replacable cylinder liners and replacable valve guides and valve seats. The throttle applications is transmitted electrically from the throttle pedal or the optional hand throttle.
**Air Cleaning:** 2 stages.
**Cooling system:** Hydrostatic, electronically controlled fan and intercooler of the air-to-air type.

| | | |
|---|---|---|
| Engine | Volvo | D13E |
| Max. power at | r/min (r/s) | 1.400-1.900 (23,3-31,7) |
| ECE R120 net | kW (hp) | 310 (416) |
| ISO 9249, SAE J1349 net | kW (hp) | 309 (414) |
| Max. torque at | r/min (r/s) | 1.100-1.150 (18,3-19,2) |
| ECE R120 net | Nm (ft lbf) | 2.343 (1.728) |
| ISO 9249, SAE J1349 net | Nm (ft lbf) | 2.328 (1,717) |
| Economic working range | r/min (r/s) | 800 - 1.600 (13,3 - 26,7) |
| Displacement | l (in³) | 12,8 (782) |




## Electrical system

**Central warning system:**
**Contronic electrical system with central warning light and buzzer for following functions:** - Serious engine fault - Low steering system pressure - Over speed warning engine - Interruption in communication (computer fault)
**Central warning light and buzzer with the gear engaged for the following functions:** - Low engine oil pressure - High engine oil temperature - High charge air temperature - Low coolant level - High coolant temperature - High crank case pressure - Low transmission oil pressure - High transmission oil temperature - Low brake pressure - Engaged parking brake - Fault on brake charging - Low hydraulic oil level - High hydraulic oil temperature - Overspeeding in engaged gear - High brake cooling oil temperature front and rear axles.

| | | |
|---|---|---|
| Voltage | V | 24 |
| Batteries | V | 2 x 12 |
| Battery capacity | Ah | 2 x 170 |
| Cold cranking capacity, approx | A | 1.000 |
| Alternator rating | W/A | 2.280/80 |
| Starter motor output | kW | 7 |

## Drivetrain

**Torque converter:** Single-stage.
**Transmission:** Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears with Pulse Width Modulation (PWM) valve. Torque converter with lockup.
**Transmission:** Volvo Automatic Power Shift (APS) with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling.
**Axles:** Volvo fully floating axle shafts with planetary hub reductions and nodular iron axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

| | | |
|---|---|---|
| Transmission | Volvo | HTL310 |
| Torque multiplication, stall ratio | | 2,02:1 |
| Maximum speed, forward/reverse | | |
| 1st gear | km/h (mi/h) | 6,7/6,6 (4,2 / 4,1) |
| 2nd gear | km/h (mi/h) | 11,6/11,4 (7,2 / 7,1) |
| 3rd gear | km/h (mi/h) | 21,7/21,4 (13,5/ 13,3) |
| 4th gear | km/h (mi/h) | 36,5/36,1 (22,7/ 22,4) |
| Measured with tires | | 29,5R25 L4 |
| Front axle/rear axle | | AWB 50B / 41 |
| Rear axle oscillation | ± ° | 15 |
| Ground clearance | mm (in) | 600 (23,6) |
| at oscillation | ° | 15 |

## Steering System

**Steering system:** Load-sensing, hydrostatic articulated steering.
**System supply:** The steering system has priority feed from a loadsensing axial piston pump with variable displacement.
**Steering cylinders:** Two double-acting cylinders.

| | | |
|---|---|---|
| Steering cylinders | | 2 |
| Cylinder bore | mm (in) | 90 (3,5) |
| Rod diameter | mm (in) | 60 (2,4) |
| Stroke | mm (in) | 525 (20,7) |
| Working pressure | MPa (bar) | 26 (260) |
| Maximum flow | l/min (gal/min) | 202 (53,4) |
| Maximum articulation | ± ° | 37 |

## Service Refill

**Service accessibility:** Large, easy-to-open hood covering whole engine department, electrically operated. Fluid filters and component breather air filters promote long service intervals. A quick-fit adapter on the hydraulic tank provides faster hydraulic oil fill. Possibility to monitor, log and analyze data to facilitate troubleshooting.

| | | |
|---|---|---|
| Fuel tank | l (gal) | 366 (96,7) |
| DEF/AdBlue® tank | l (gal) | 31 (8,2) |
| Engine coolant | l (gal) | 55 (14,5) |
| Hydraulic oil tank | l (gal) | 226 (59,7) |
| Transmission oil | l (gal) | 48 (12,7) |
| Engine oil | l (gal) | 50 (13,2) |
| Axle oil front | l (gal) | 78 (20,6) |
| Axle oil rear | l (gal) | 80 (21,1) |

## 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 three positions; raise, hold and lower position. 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 10 micron (absolute) filter cartridge.

| | | |
|---|---|---|
| Working pressure maximum, pump 1 for working hydraulic system | MPa (bar) | 29,0 ± 0,5 (290 ± 5) |
| Flow | l/min (gal/min) | 252 (66,6) |
| at | MPa (bar) | 10 (100) |
| engine speed | r/min (r/s) | 1.900 (31,7) |
| Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system | MPa (bar) | 31,0 ± 0,5 (310 ± 5) |
| Flow | l/min (gal/min) | 202 (53,4) |
| at | MPa (bar) | 10 (100) |
| engine speed | r/min (r/s) | 1.900 (31,7) |
| Working pressure maximum, pump 3 for brake- and cooling fan system | MPa (bar) | 25,0 ± 0,5 (250 ± 5) |
| Flow | l/min (gal/min) | 83 (21,9) |
| at | MPa (bar) | 10 (100) |
| engine speed | r/min (r/s) | 1.900 (31,7) |
| Pilot system, working pressure | MPa (bar) | 3,2 - 4,0 (32 - 40) |
| Cycle times | | |
| Lift | s | 7,1 |
| Tilt | s | 1,9 |
| Lower, empty | s | 4,1 |
| Total cycle time | s | 13,1 |

## Lift Arm System

| | | |
|---|---|---|
| Z-bar | | |
| Lift cylinders | | 2 |
| Cylinder bore | mm (in) | 190 (7,5) |
| Piston rod diameter | mm (in) | 110 (4,3) |
| Stroke | mm (in) | 873 (34,4) |
| Tilt cylinder | | 1 |
| Cylinder bore | mm (in) | 220 (8,7) |
| Piston rod diameter | mm (in) | 120 (4,7) |
| Stroke | mm (in) | 570 (22,4) |

## Brake system

**Service brake:** Volvo dual-circuit system with nitrogen-charged accumulators. Outboard-mounted fully hydraulic operated, fully sealed oil circulation-cooled wet disc brakes. The operator can select automatic declutch of the transmission when braking by a switch on the instrument panel.
**Parking brake:** Dry disc brake. Applied by spring force, electro-hydraulic release with a switch on the instrument panel.
**Secondary brake:** Dual brake circuits with rechargeable accumulators. 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 | | 2 – 1 |
| Number of brake discs per wheel front | | 2 |
| Number of brake discs per wheel | | 1 |
| Accumulators | l (gal) | 2 x 1,0 + 1 x 0,5 (2 x 0,26 + 1 x 0,13) |
| Accumulators for parking brake | l (gal) | 1 x 0,5 (1 x 0,13) |

## Cab

**Instrumentation:** All important information is centrally located in the operator's field of vision. Display for Contronic monitoring system. Heater and defroster: Heater coil with filtered fresh air and fan with auto and 11 speeds. Defroster vents for all window areas.
**Operator's seat:** Operator's seat with adjustable suspension and retractable seatbelt. The seat is mounted on a bracket on the rear cab wall and floor. The forces from the retractable seatbelt are absorbed by the seat rails.
**Standard:** The cab is tested and approved according to ROPS (ISO 3471), FOPS (ISO 3449). The cab meets with requirements according to ISO 6055 (Operator overhead protection - Industrial trucks) and SAE J386 ("Operator Restraint System").
Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq

| | | |
|---|---|---|
| Ventilation | $m^3$/min ($yd^3$/min) | 9 (11,8) |
| Heating capacity | kW | 16 |
| Air conditioning (optional) | kW | 7,5 |

## Sound Level

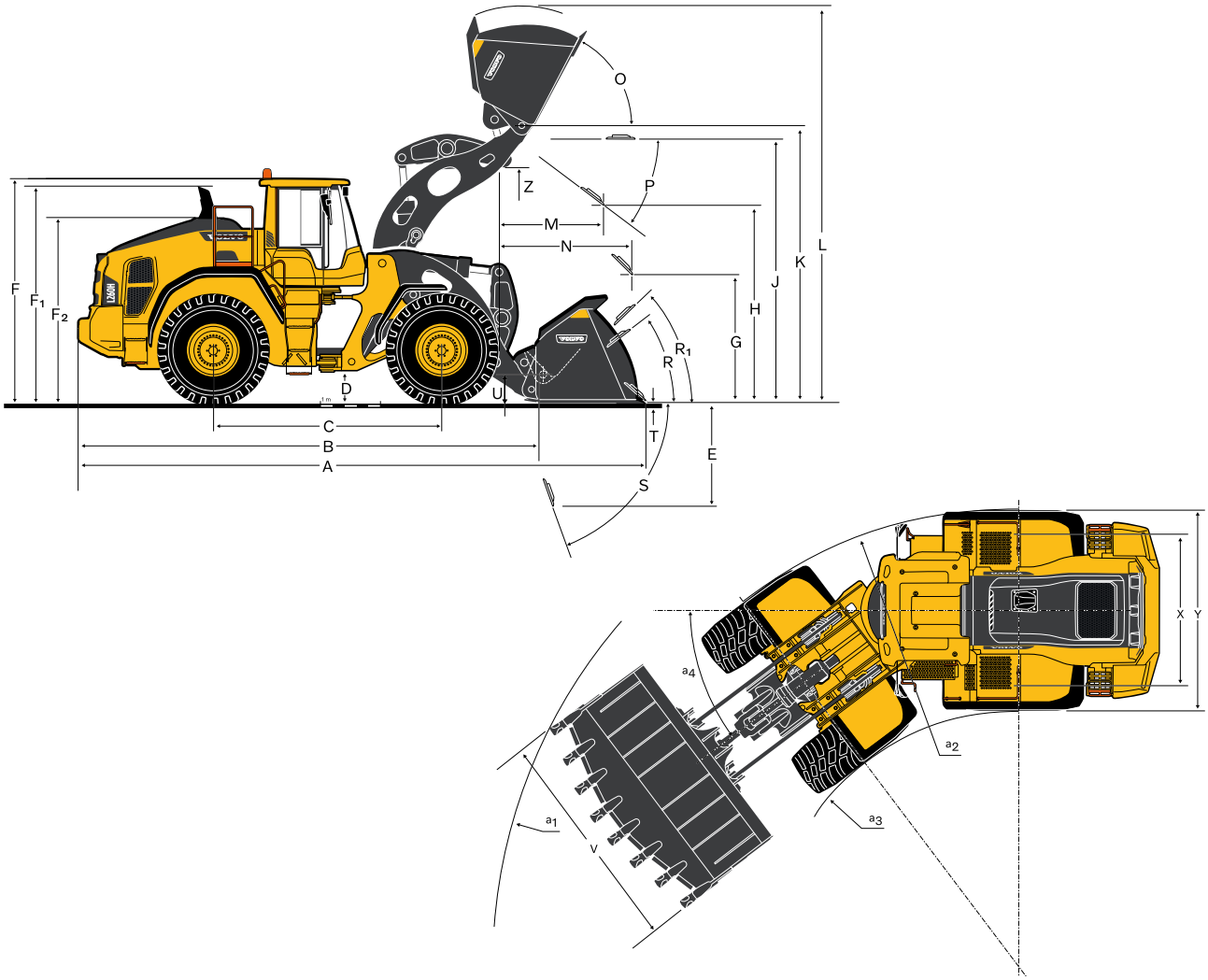
| | | |
|---|---|---|
| Sound level in cab according to ISO 6396/SAE J2105 | | |
| $L_{pA}$ | dB | 70 |
| External sound level according to ISO 6395/SAE J2104 | | |
| $L_{WA}$ | dB | 109 |

# Specifications

**Tires L260H: 29.5 R25 L4**

| | | | Standard boom | | Long boom | |
|---|---|---|---|---|---|---|
| A | mm | ft in | 9.670 | 31'9" | 9.974 | 32'9" |
| B | mm | ft in | 7.590 | 24'11" | 7.860 | 25'9" |
| C | mm | ft in | 3.80 | 12'6" | 3.800 | 12'6" |
| D | mm | ft in | 520 | 1'8" | 529 | 1'9" |
| E | mm | ft in | 1.910 | 6'3" | 1.997 | 6'7" |
| F | mm | ft in | 3.720 | 12'2" | 3.726 | 12'3" |
| F1 | mm | ft in | 3.610 | 11'10" | 3.621 | 11'11" |
| F2 | mm | ft in | 2.870 | 9'5" | 2.883 | 9'6" |
| G | mm | ft in | 2.133 | 7'0" | 2.133 | 7'0" |
| H | mm | ft in | 3.090 | 10'2" | 3.479 | 11'2" |
| J | mm | ft in | 4.320 | 14'2" | 4.683 | 15'4" |
| K | mm | ft in | 4.620 | 15'2" | 4.989 | 16'4" |
| L | mm | ft in | 6.450 | 21'2" | 6.816 | 22'4" |
| M | mm | ft in | 1.810 | 5'11" | 1.733 | 5'8" |
| N | mm | ft in | 2.390 | 7'10" | 2.668 | 8'9" |
| O | | ° | 62 | | 57 | |
| Forward dump at K and M | | ° | 43 | | 45 | |
| P | | ° | 43 | | 47 | |
| R | | ° | 42 | | 44 | |
| R1 | | ° | 48 | | 51 | |
| S | | ° | 75 | | 81 | |
| Grading angle | | ° | 42 | | 46 | |
| T | mm | ft in | 156 | 0'6" | 214 | 0'8" |
| U* | mm | ft in | 560 | 1'10" | 650 | 2'2" |
| V | mm | ft in | 3.580 | 11'9" | 3.580 | 11'9" |
| X | mm | ft in | 2.40 | 7'10" | 2.40 | 7'10" |
| Y | mm | ft in | 3.160 | 10'4" | 3.160 | 10'4" |
| Z | mm | ft in | 3.840 | 12'7" | 3.848 | 12'7" |
| a1 | mm | ft in | 16.370 | 53'8" | 16.597 | 54'5" |
| a2 | mm | ft in | 7.260 | 23'10" | 7.259 | 23'10" |
| a3 | mm | ft in | 4.10 | 13'5" | 4.099 | 13'5" |
| a4 | | ° | 37 | | 37 | |

* Carry position SAE
Bucket: 6,4 m³ (8,4 yd³) STE P T SEG
Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.



**L260H**

| | | | REHANDLING (7) | | | | | | GENERAL PURPOSE (5) | | | | ROCK (6) | | | | | | SAND (4) | | LONG BOOM (2) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| | | | 6,9 m³ (9,0 yd³) STE P BOE | | 7,3 m³ (9,6 yd³) STE P BOE FF (1) | | 7,3 m³ (9,6 yd³) STE P BOE | | 6,4 m³ (8,4 yd³) STE P T SEG | | 6,8 m³ (8,9 yd³) STE P T SEG | | 5,5 m³ (7,2 yd³) STE RO P T SEG | | 5,9 m³ (7,7 yd³) STE RO P T SEG | | 6,5 m³ (8,5 yd³) SPN P T SEG | | 6,8 m³ (8,9 yd³) STE P BOE FF (1) | | 5,5 m³ (7,2 yd³) STE RO P T SEG | |
| Volume, heaped ISO/SAE | m³ | yd³ | 6,9 | 9,0 | 7,3 | 9,5 | 7,3 | 9,5 | 6,4 | 8,4 | 6,8 | 8,9 | 5,5 | 7,2 | 5,9 | 7,7 | 6,5 | 8,5 | 6,8 | 8,9 | 5,5 | 7,2 |
| Volume at 110% fill factor | m³ | yd³ | 7,6 | 9,9 | 8,0 | 10,5 | 8,0 | 10,5 | 7,0 | 9,2 | 7,5 | 9,8 | 6,1 | 8,0 | 6,5 | 8,5 | 7,2 | 9,4 | 7,5 | 9,8 | 6,1 | 8,0 |
| Static tipping load, straight | kg | lb | 27.550 | 60.737 | 27.610 | 60.870 | 27.330 | 60.252 | 25.830 | 56.945 | 25.640 | 56.526 | 26.980 | 59.481 | 27.050 | 59.635 | 26.020 | 57.364 | 25.180 | 55.512 | -3.300 | -7.275 |
| at 35° turn | kg | lb | 24.440 | 53.881 | 24.490 | 53.991 | 24.210 | 53.374 | 22.890 | 50.464 | 22.710 | 50.067 | 23.980 | 52.867 | 24.040 | 52.999 | 23.020 | 50.750 | 22.330 | 49.229 | -3.010 | -6.636 |
| at full turn | kg | lb | 24.090 | 53.109 | 24.130 | 53.197 | 23.850 | 52.580 | 22.560 | 49.736 | 22.370 | 49.317 | 23.630 | 52.095 | 23.700 | 52.249 | 22.680 | 50.001 | 22.000 | 48.502 | -2.970 | -6.548 |
| Breakout force | kN | lbf | 290,0 | 65.195 | 284,1 | 63.868 | 283,2 | 63.666 | 302,6 | 68.027 | 299,6 | 67.353 | 335,9 | 75.513 | 325,2 | 73.108 | 256,1 | 57.574 | 272,0 | 61.148 | -29,5 | -6.632 |
| A | mm | ft in | 9.430 | 30'11" | 9.440 | 31'0" | 9.470 | 31'1" | 9.670 | 31'9" | 9.690 | 31'9" | 9.470 | 31'1" | 9.530 | 31'3" | 9.960 | 32'8" | 9.520 | 31'3" | +320 | +1'1" |
| E | mm | ft in | 1.690 | 5'7" | 1.710 | 5'7" | 1.730 | 5'8" | 1.910 | 6'3" | 1.920 | 6'4" | 1.710 | 5'7" | 1.760 | 5'9" | 2.160 | 7'1" | 1.790 | 5'10" | +100 | +0'4" |
| H (3) | mm | ft in | 3.250 | 10'8" | 3.260 | 10'8" | 3.230 | 10'7" | 3.090 | 10'2" | 3.070 | 10'1" | 3.250 | 10'8" | 3.200 | 10'6" | 2.920 | 9'7" | 3.200 | 10'6" | +300 | +1'0" |
| L | mm | ft in | 6.590 | 21'7" | 6.630 | 21'9" | 6.640 | 21'9" | 6.450 | 21'2" | 6.480 | 21'3" | 6.680 | 21'11" | 6.760 | 22'2" | 6.830 | 22'5" | 6.520 | 21'5" | +350 | +1'2" |
| M (3) | mm | ft in | 1.670 | 5'6" | 1.720 | 5'8" | 1.700 | 5'7" | 1.810 | 5'11" | 1.820 | 6'0" | 1.680 | 5'6" | 1.700 | 5'7" | 2.020 | 6'8" | 1.790 | 5'10" | -90 | -1'8" |
| N (3) | mm | ft in | 2.330 | 7'8" | 2.230 | 7'4" | 2.350 | 7'9" | 2.390 | 7'10" | 2.400 | 7'10" | 2.320 | 7'7" | 2.340 | 7'8" | 2.520 | 8'3" | 2.270 | 7'5" | +270 | +0'11" |
| V | mm | ft in | 3.580 | 11'9" | 3.650 | 12'0" | 3.650 | 12'0" | 3.580 | 11'9" | 3.650 | 12'0" | 3.580 | 11'9" | 3.580 | 11'9" | 3.580 | 11'9" | 3.650 | 12'0" | 0 | 0'0" |
| a1 clearance circle | mm | ft in | 16.240 | 53'3" | 16.300 | 53'6" | 16.320 | 53'7" | 16.370 | 53'8" | 16.440 | 53'11" | 16.270 | 53'5" | 16.300 | 53'6" | 16.550 | 54'4" | 16.340 | 53'7" | +220 | +0'9" |
| Operating weight | kg | lb | 34.030 | 75.023 | 33.990 | 74.935 | 34.170 | 75.332 | 33.240 | 73.282 | 33.360 | 73.546 | 34.630 | 76.346 | 34.560 | 76.192 | 35.190 | 77.581 | 33.050 | 72.863 | +480 | +1.085 |

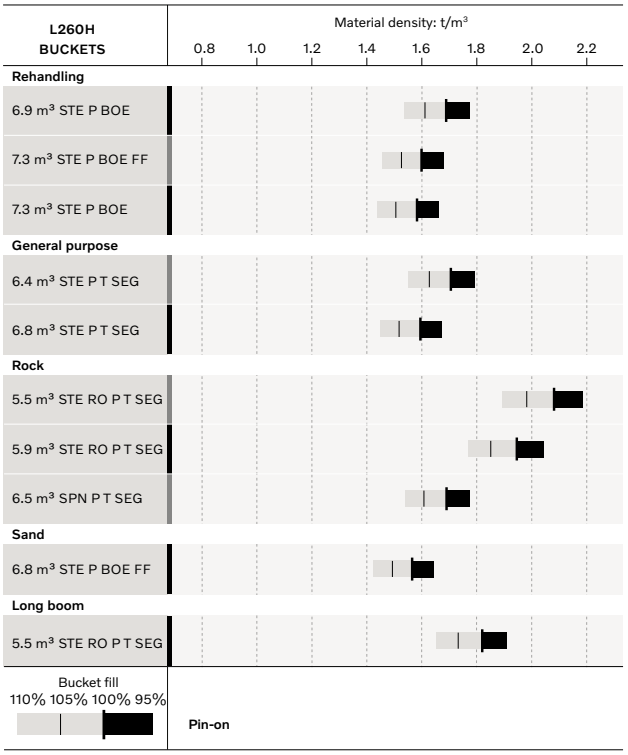
(1) Flat floor bucket
(2) Measured with 5,5 m³ (7,2 yd³) STE RO P T SEG bucket
(3) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge measured at 45° dump angle. (Spade nose buckets at 42°.)
(4) Measured with 29.5 R25 L3 tire
(5) Measured with 29.5 R25 L4 tire
(6) Measured with 29.5 R25 L5 tire
(7) Measured with 29.5 R25 L4 tire and additional counterweight
Note: This only applies to genuine Volvo attachments.

**Bucket Selection Chart**

The volume handled varies with the bucket fill and is often greater than indicated by the bucket's ISO/SAE volume. The table shows optimum bucket choice with regard to the material density.

| Material | Bucket fill, % | Material density, t/m3 | Material density, lb/yd³ |
|---|---|---|---|
| Earth | 110 - 115 | 1,4 - 1,6 | 2.360 - 2.697 |
| Clay | 110 - 120 | 1,4 - 1,6 | 2.360 - 2.697 |
| Sand | 100 - 110 | 1,6 - 1,9 | 2.697 - 3.203 |
| Gravel | 100 - 110 | 1,7 - 1,9 | 2.865 - 3.203 |
| Rock | 75 - 100 | 1,5 - 1,9 | 2.528 - 3.203 |

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



How to read bucket fill factor

**Supplemental Operating Data**

| | | | Standard boom | | | | Long boom | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Tires 29.5 R25 L4** | | | **29.5 R25 L5** | | **875/65R29 L3** | | **29.5 R25 L5** | | **875/65R29 L3** | |
| Width over tires | mm | ft in | +50 | +0' 2" | +100 | +0' 4" | +50 | +0' 2" | +100 | +0' 4" |
| Ground clearance | mm | ft in | +30 | +0' 1" | +10 | 0' 0" | +20 | +0' 1" | 0 | 0' 0" |
| Tipping load, full turn | kg | lb | +960 | +2.116 | +240 | +520 | -2.120 | -4.690 | -2.770 | -6.130 |
| Operating weight | kg | lb | +1.280 | +2.830 | +440 | +980 | +1.760 | +3.880 | +920 | +2.030 |

# Equipment

| STANDARD EQUIPMENT |
|---|
| **Standard Equipment** |
| Engine |
| Two stage air cleaner, pre-cleaner, primary and secondary filter |
| Indicator for coolant level |
| Preheating of induction air |
| Fuel pre-filter with water trap |
| Fuel filter |
| Crankcase breather oil trap |
| Exterior radiator air intake protection |
| **Drivetrain** |
| Automatic Power Shift |
| Fully automatic gearshifting, 1-4 |
| PWM-controlled gearshifting |
| Forward and reverse switch by hydraulic lever console |
| Rimpull control |
| Indicator glass for transmission oil level |
| Differentials: Front, 100% hydraulic diff lock. Rear, conventional. |
| OptiShift transmission with Lock-up RBB |
| Lock-up first gear |
| **Electrical System** |
| 24 V, pre-wired for optional accessories |
| Alternator 24V/80A/2280W |
| Battery disconnect switch |
| Fuel gauge |
| Hour meter |
| Electric horn |
| Instrument cluster:<br>Fuel level<br>Transmission temperature<br>Coolant temperature<br>Instrument lighting |
| Lighting:<br>Twin halogen front headlights with high and low beams<br>Parking lights<br>Double brake and tail lights<br>Turn signals with flashing hazard light function<br>Halogen work lights (2 front and 2 rear) |

| STANDARD EQUIPMENT |
|---|
| **Contronic monitoring system** |
| Monitoring and logging of machine data |
| Contronic display |
| Fuel consumption |
| Diesel Exhaust Fluid/AdBlue, empty |
| Ambient temperature |
| Clock |
| Test function for warning and indicator lights |
| Brake test |
| Test function, sound level at max fan speed |
| Warning and indicator lights:<br>Battery charging<br>Parking brake |
| Warning and display message:<br>Regeneration<br>Engine coolant temperature<br>Engine oil temperature<br>Engine oil pressure<br>Transmission oil temperature<br>Transmission oil pressure<br>Hydraulic oil temperature<br>Brake pressure<br>Parking brake applied<br>Brake charging<br>Overspeed at direction change<br>Axle oil temperature<br>Steering pressure<br>Crankcase pressure<br>Attachment lock open<br>Safety Belt Warning |
| Level warnings:<br>Fuel level<br>Diesel Exhaust Fluid/AdBlue level<br>Engine oil level<br>Engine coolant level<br>Hydraulic oil level<br>Washer fluid level |
| Engine torque reduction in case of malfunction indication:<br>High engine coolant temperature<br>High engine oil temperature<br>Low engine oil pressure<br>High crankcase pressure<br>High charge-air temperature |
| Engine speed reduced in case of malfunction indication:<br>High transmission oil temperature<br>Slip in transmission clutches |
| Keypad, background lit |
| Start interlock when gear is engaged |

| STANDARD EQUIPMENT |
|---|
| **Hydraulic system** |
| Main valve, double acting 2-spool with hydraulic pilots |
| Variable displacement axial piston pumps (3) for:<br>1 Working hydraulics, Pilot hydraulics and Brake system<br>2 Working hydraulics, Pilot hydraulics, Steering and Brake system<br>3 Cooling fan and Brake system |
| Electro-hydraulic servo controls |
| Electronic hydraulic lever lock |
| Automatic boom kick-out |
| Automatic bucket positioner |
| Double-acting hydraulic cylinders |
| Indicator glass for hydraulic oil level |
| Hydraulic oil cooler |
| **Brake system** |
| Dual brake circuits |
| Dual brake pedals |
| Secondary brake system |
| Parking brake, electro-hydraulic |
| Brake wear indicators |
| **Cab** |
| ROPS (ISO 3471), FOPS (ISO 3449) |
| Single key kit door/start |
| Acoustic inner lining |
| Cigarette lighter, 24 V power outlet |
| Lockable door |
| Cab heating with fresh air inlet and defroster |
| Fresh air inlet with two filters |
| Automatic heat control |
| Floor mat |
| Dual interior lights |
| Interior rear-view mirrors |
| Dual exterior rear-view mirrors |
| Sliding window, right side |
| Tinted windshield glass |
| Retractable seatbelt (SAE J386) |
| Adjustable steering wheel |
| Storage compartment |
| Document pocket |
| Sun visor |
| Beverage holder |
| Windshield washer front and rear |
| Windshield wipers front and rear |
| Interval function for front and rear wipers |

| STANDARD EQUIPMENT |
|---|
| **Service and maintenance** |
| Engine oil remote drain and fill |
| Transmission oil remote drain and fill |
| Lubrication manifolds, ground accessible |
| Pressure check connections: transmission and hydraulic, quick-connects |
| Quick-fit hydraulic oil fill |
| Tool box, lockable |
| **External equipment** |
| Orange hand rails |
| Fenders, front and rear |
| Viscous cab mounts |
| Rubber engine and transmission mounts |
| Frame, joint lock |
| Vandalism lock prepared for<br>Engine compartment<br>Radiator grille |
| Lifting eyes |
| Tie-down eyes |
| Fabricated counterweight |
| Counterweight, pre-drilled for optional guards |

# Equipment

| OPTIONAL EQUIPMENT |
|---|
| **Engine** |
| Air pre-cleaner, cyclone type |
| Air pre-cleaner, oil-bath type |
| Air pre-cleaner, turbo type |
| Engine auto shutdown |
| Engine delayed shutdown |
| Engine block heater 230V/110V |
| Fuel fill strainer |
| Fuel heater |
| Fuel filter, extra |
| Hand throttle control |
| Max. fan speed, hot climate |
| Radiator, corrosion-protected |
| Reversible cooling fan |
| Reversible cooling fan and axle oil cooler |
| **Tires** |
| 29.5 R25 |
| 875/65 R29 |
| **Drivetrain** |
| Diff lock front 100%, Limited Slip rear |
| Speed limiter |
| Wheel/axle seal guards |
| **Electrical System** |
| Anti-theft device |
| Battery disconnect switch, additional in cab |
| Emergency stop |
| Locking device, Tag out Lock out |
| Headlights, assym. left |
| License plate holder, lighting |
| Rear view mirrors, el.adjusted and heated |
| Reduced function working lights, reverse gear activated |
| Reverse alarm, audible |
| Reverse alarm, white noise |
| Reverse warning light, strobe lighting |
| Seatbelt indicator, external |
| Shortened headlight support brackets |
| Side marker lamps |
| Warning beacon LED |
| Warning beacon LED automatic |
| Light options:<br>LED Economy package<br>LED Feature Package<br>LED Power Package<br>LED Working light attachment<br>Halogen Economy package<br>Halogen Feature package<br>Halogen Power package<br>Halogen Working light attachment |
| Electrical distribution unit 24 volt |
| Alternator 120 amp, heavy-duty |
| Radar detect system |
| Forward camera |
| Parking brake alarm, audible for air susp seats |
| Jump start connector, NATO-Type |
| Seatbelt indicator, external |
| Max Boom height |
| Can Bus Interface |
| Delayed Engine Shutdown |
| Co Pilot:<br>Rearview camera<br>OnBoard Weighing<br>Tire pressure monitoring |
| MAPS, map function in Co Pilot |

| OPTIONAL EQUIPMENT |
|---|
| **Hydraulic system** |
| Boom suspension system |
| Boom cylinder hose and tube guards |
| Hydraulic fluid, biodegradable, Volvo |
| Hydraulic fluid, fire-resistant |
| Hydraulic fluid, for hot climate |
| Mineral oil for cold climate |
| Hydraulic 3rd function |
| Single lever control, hydraulics 2 functions |
| Single lever control, hydraulics 3 functions |
| **Brake system** |
| Oil cooler and filter front & rear axle |
| **Cab** |
| Anchorage for Operator's manual |
| Automatic Climate Control, ACC |
| ACC control panel, with Fahrenheit scale |
| Asbestos dust protection filter |
| Ashtray |
| Cab air pre-cleaner, cyclone type |
| Carbon filter |
| Cover plate, under cab |
| Lunch box holder |
| Volvo Armrest, operator's seat, left |
| Operator's seat, Volvo air susp, heavy-duty, high back, heated |
| Operator's seat, (air seat std) 2-point seat belt |
| Operator's seat, (air seat std) 3-point seat belt |
| Operator's seat, Premium Comfort ISRI |
| Operator's seat, Premium Comfort ISRI 3-point seat belt |
| Radio installation kit incl. 12 volt outlet, left side |
| Radio installation kit incl. 12 volt outlet, right side |
| Radio (with AUX, Bluetooth and USB connection) |
| DAB Radio |
| Subwoofer |
| Steering wheel knob |
| Sun blinds, rear windows |
| Sun blinds, side windows |
| Timer cab heating |
| Window, sliding, door |
| Universal door/ignition key |
| Remote door opener |
| Forward view mirror |
| Cab heater power outlet 240V |
| Cab, Hot applications. Roof, steel |
| Fire extinguisher cab |
| Outside steel protection cab |
| Rear view mirrors long arm, cab |
| Reinforced windshield, flat |
| **Service and maintenance** |
| Automatic lubrication system |
| Cleaner kit, with air blow gun |
| Oil sampling valve |
| Quick engine oil change |
| Refill pump for grease to lube system |
| Tool kit |
| Wheel nut wrench kit |
| CareTrack, GSM, GSM/Satellite |
| Telematics, Subscription |

| OPTIONAL EQUIPMENT |
|---|
| **Protective equipment** |
| Belly guard front |
| Belly guard rear |
| Belly guard rear, oil pan |
| Center hinge and rear frame guard |
| Cover plate, heavy-duty, front frame |
| Cover plate, rear frame |
| Cab roof, heavy-duty |
| Guards for front headlights |
| Guards for radiator grill |
| Guards for tail lights |
| Windows, side and rear guards |
| Windshield guard |
| Corrosion protection, painting of machine |
| Option for machines without dinitrol |
| **External equipment** |
| Cab ladder, rubber-suspended |
| Handles on counterweight |
| Deleted front mudguards |
| Fire suppression system |
| Fire extinguisher |
| Fire extinguisher , two pieces |
| Mudguards, full cover, front and rear |
| Mudguards, full cover wideners and prot. Included |
| Long boom |
| Tow hitch |

| OPTIONAL EQUIPMENT |
|---|
| **Other equipment** |
| Comfort Drive Control (CDC) |
| Counterweight, re-handling |
| Counterweight, signal painted, chevrons |
| Secondary steering with automatic test function |
| Reflecting stickers (decals), machine contour |
| Reflecting stickers (stripes), machine contour Cab |
| Noise reduction kit, exterior |
| **Attachments** |
| Buckets: |
| Rock straight or spade nose |
| General purpose |
| Re-handling |
| Side-dump |
| Light material |
| Wear parts: |
| Bolt-on and weld-on bucket teeth |
| Segments |
| Cutting edge in three sections, bolt-on |
| Material handling arm |

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

**Wide tires**

**Central lubrication system**

**Seat and control options**

**Rehandling package**

**Radar detect system**

**Long boom**

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.

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VOLVO