

Volvo Construction Equipment
Building Tomorrow



L150H, L180H, L220H

Volvo Wheel Loaders 24.1-33.1 t / 53,130-72,970 lb 295-367 hp



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.

1954

The world's first wheel loader to feature a parallel lift arm system and attachment bracket with quick coupler – the H10

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

The new H-series L150, L180 and L220 may boast the same striking design as each of its forerunners, but these machines have been updated with the latest innovative technology, promoting greater productivity and fuel efficiency. Ready to tackle a range of applications, enjoy the same reliability and quality you'd expect from your Volvo wheel loader and more.



2009

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

2010

OptiShift
CareTrack

2016

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

2017

New generation OptiShift

Second generation load sensing hydraulics – Patent pending

With you for the long run

As your trusted partner in production, Volvo is here to support you with the best equipment for the job. Boasting a comprehensive portfolio of attachments designed to complement your machines performance, as well as a range of services to boost your profitability, we'll help you tailor the perfect package to suit your business needs.



Smarter operation

Primed for productivity, the innovative L150H, L180H and L220H loaders combine the latest Volvo technology, including second generation OptiShift, with power and upgraded features, resulting in up to 15% better fuel efficiency than the G-series.

Up to 15% greater fuel efficiency

Do more with less fuel, the H-series machine updates offer up to 15% greater fuel efficiency than the G-series. Contributing to the increase is the powerful engine, second generation OptiShift, attachment optimization and the new dry P-Brake, which eliminates drag losses.



Reverse By Braking

Extend the life of your machine's components and increase operator comfort with Reverse By Braking (RBB) – patented by Volvo. The braking function slows the machine when the operator wants to change direction, by reducing engine rpm and automatically applying the service brakes, reducing stress on the drivetrain.



Power up, fuel down

For short cycle times and high fuel efficiency, the H-series wheel loaders are fitted with a powerful Volvo engine – compliant with the latest emission regulations – delivering greater output and torque than the G-series.



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.





NEW GENERATION OPTISHIFT

For improved cycle times and reduced fuel consumption, customize the lock-up engagement of your machine, with new generation OptiShift. The improved technology integrates the Reverse By Braking function and the new torque converter with lock-up, creating a direct drive between the engine and transmission.



LOAD ASSIST

Unlock the full potential of your machine's productivity with Load Assist, a dynamic load weighing system up to 1% accuracy. Powered by the 10" Volvo Co-Pilot touchscreen, the system enables you to monitor the amount of material moved and easily manage work orders – the data can then be stored and accessed remotely. In addition, you can track your machine's fuel efficiency with the help of CareTrack.

Made to move

Engineered for efficient work, the L150H, L180H and L220H are fitted with a new transmission and improved technology, resulting in up to 10% better productivity than the G-series.

Boost your productivity by up to 10%

For ultimate stability and high efficiency, the H-series wheel loaders have been upgraded with a new transmission, which works in harmony with the engine and axels. The new converter delivers increased torque output, resulting in better performance at low speeds. For faster acceleration and smooth operation, the steps between gears have been reduced.



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.



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.



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.



Fully loaded

Get the most out of your Volvo wheel loader with a range of purpose built attachments. 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, breakout and lifting forces. If we don't have the right attachment, Volvo can custom build one to your specific requirements.

Rehandling

Experience up to 5% greater productivity with a new range of Volvo Rehandling buckets. The redesigned buckets are easier to fill and minimize spillage, thanks to new convex sides and the improved spill guard. To prevent spillage and absorb shocks, opt for the Boom Suspension System, which automatically engages, depending on gear or speed selection.



Log handling

Designed for high lifting force and tilt out force, and offering maximum stability in log handling applications, select from a choice of general purpose grapples, sorting grapples and unloading grapples.



Slag handling

To protect you and your machine, and ensure durable performance in hot slag handling applications, Volvo offers a selection of specially-designed machine options and attachments.



Block handling

For high lifting force and maximum stability in block handling applications, choose from a range of robust Volvo attachments, including block forks, breaker tine and clearing rakes.





*"Taking 27 tonne blocks from the quarry floor to the loading area is not a problem with the L220H."
Giuseppe Sanna, Director of production at Marmi Daino Real, Orosei (Italy)*



TORQUE PARALLEL LINKAGE

For strength in demanding applications, Volvo's unique Torque Parallel (TP) linkage provides high breakout torque and ultimate parallel movement throughout the entire lifting range. The linkage offers stability during loading and carrying and allows easy filling of the buckets. For long lasting performance, the lifting arm has double sealing on each of the pins.

Strong and smart machines

UP TO 15% GREATER FUEL EFFICIENCY

- New generation OptiShift
- Eco pedal
- Reverse By Braking
- New dry P-brake

MAXIMIZE YOUR UPTIME

- Lifetime Frame and Structure Warranty
- Tilting cab – 30° or 70°
- Electronically-operated engine hood
- Brake wear indicators
- Outboard mounted brakes
- Replaceable breather filters

HERE TO SUPPORT YOU

- Genuine Volvo Parts, with 24-hours delivery guarantee
- Operator training
- ActiveCare Direct

FULLY LOADED

- Unique Torque Parallel linkage
- Block handling
- Slag handling
- Log handling
- Rehandling – up to 5% greater productivity



BOOST YOUR PRODUCTIVITY BY UP TO 10%

- New load sensing hydraulics
- New transmission and gear ratio
- Bucket leveling function
- Load Assist
- Choice of single or multi levers

BUILT WITH THE OPERATOR IN MIND

- New adjustable seat
- New rear view mirrors
- Choice of three hydraulic modes
- Comfort Drive Control (option)
- Radar detect system (option)
- Remote-control door opener (option)



*"I'm very pleased that we decided to go for these machines."
Wayne Flew, Operator, Albion Stone (United Kingdom)*



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.

Built with the operator in mind

Built with the customer, for the customer, the L150H, L180H and L220H boast a range of features to enhance your operating experience. For increased productivity, the Volvo cab can be customized to your preference.

Visibility

To enhance visibility, the H-series wheel loaders have 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.



Comfort Drive Control

To reduce operator fatigue and improve productivity, Comfort Drive Control can be optionally integrated into your machine. The smart function gives you the opportunity to steer the machine from a small lever – particularly effective for fast-paced truck loading operations.



Operator training

Increase productivity and reduce fuel consumption by learning how to operate your wheel loader in the most efficient way. Volvo offers operator training, which encompasses the best practices in the industry.



Keep moving

Offering strength in demanding applications, the L150H, L180H and L220H are built to last. Maintain the life of your machine with simple serviceability and proactive dealer support.

Durable by design

Designed with durability in mind, the H-series wheel loaders are built with a Lifetime Frame and Structure Warranty, including the front frame, rear frame, articulation joint and loader arm. The hydraulically-driven cooling fan regulates component temperature and can be automatically reversed to permit self-cleaning of the cooling units. For long service life, the brakes are outboard mounted and the front and rear axles are cooled by the oil circulation.



ActiveCare Direct

Maximize machine uptime and reduce repair costs with ActiveCare Direct. The intelligent service provides predictive and preventative maintenance and around the clock machine monitoring, as well as customer reports.



Here to support you

Maintain productivity and machine uptime with our range of Genuine Volvo Parts – all backed by Volvo warranty, with 24-hour parts delivery guarantee. We're here to help you stay on track, offering flexible maintenance and repair plans.





*"We have chosen Volvo machines based on quality, trust and service."
Gerard den Hartog, CEO, Gebroeders Den Hartog (Netherlands)*



INDUSTRY LEADING SERVICEABILITY

For simple serviceability, the Volvo cab can be tilted to either a 30° or 70° angle, and the engine hood is operated electronically. Stay one step ahead and check the condition of your brakes using the brake wear indicators, placed on the wheels. To prevent dirt and moisture from entering components, each has replaceable breather filters, located remotely.

Volvo L150H, L180H, L220H in detail

Engine

V-ACT Stage IV/Tier 4F 13 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 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.

L150H

| Engine | Volvo | D13J |
|-------------------------|----------------------|---------------------------|
| Max. power at | r/min (r/s) | 1,300 (21.7) |
| SAE J1995 gross | kW (hp) | 220 (295) |
| ISO 9249, SAE J1349 net | kW (hp) | 220 (295) |
| Max. torque at | r/min (r/s) | 1,000 (16.7) |
| SAE J1995 gross | Nm (ft lbf) | 1,960 (1,446) |
| ISO 9249, SAE J1349 net | Nm (ft lbf) | 1,957 (1,443) |
| Economic working range | r/min (r/s) | 800 - 1,600 (13.3 - 26.7) |
| Displacement | l (in ³) | 12.8 (781) |

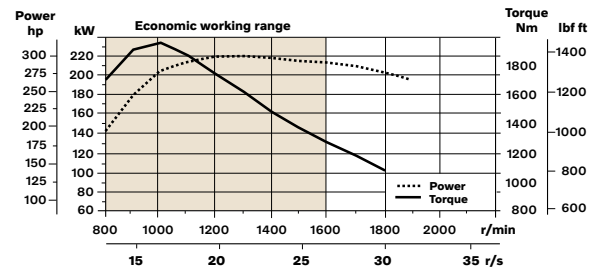
L180H

| Engine | Volvo | D13J |
|-------------------------|----------------------|-----------------------------|
| Max. power at | r/min (r/s) | 1,300 - 1,400 (21.7 - 23.3) |
| SAE J1995 gross | kW (hp) | 246 (330) |
| ISO 9249, SAE J1349 net | kW (hp) | 245 (329) |
| Max. torque at | r/min (r/s) | 1,000 (16.7) |
| SAE J1995 gross | Nm (ft lbf) | 2,030 (1,497) |
| ISO 9249, SAE J1349 net | Nm (ft lbf) | 2,024 (1,493) |
| Economic working range | r/min (r/s) | 800 - 1,600 (13.3 - 26.7) |
| Displacement | l (in ³) | 12.8 (781) |

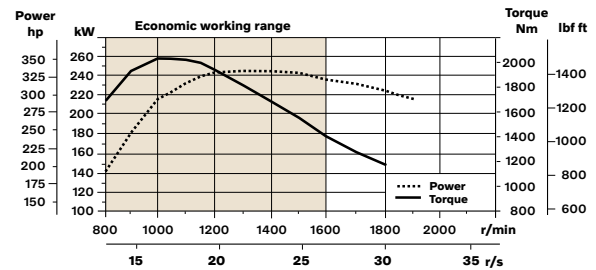
L220H

| Engine | Volvo | D13J |
|-------------------------|----------------------|-----------------------------|
| Max. power at | r/min (r/s) | 1,300 - 1,400 (21.7 - 23.3) |
| SAE J1995 gross | kW (hp) | 274 (367) |
| ISO 9249, SAE J1349 net | kW (hp) | 273 (366) |
| Max. torque at | r/min (r/s) | 1,100 (18.3) |
| SAE J1995 gross | Nm (ft lbf) | 2,231 (1,645) |
| ISO 9249, SAE J1349 net | Nm (ft lbf) | 2,220 (1,637) |
| Economic working range | r/min (r/s) | 800 - 1,600 (13.3 - 26.7) |
| Displacement | l (in ³) | 12.8 (781) |

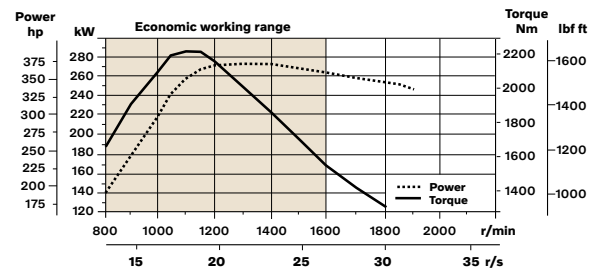
L150H



L180H



L220H



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.

Axles: Volvo fully floating drive shafts with planetary hub reductions and nodular iron axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle. Optional: Limslip rear.

| | | L150H | L180H | L220H |
|------------------------------------|----------------|----------------------|----------------------|------------------------------|
| Transmission | Volvo | HTL 223 | HTL 223 | HTL 310 |
| Torque multiplication, stall ratio | | 2.09:1 | 2.09:1 | 2.02:1 |
| Maximum speed, forward/reverse | | | | |
| 1st gear | km/h (mi/h) | 6.1 (3.8) | 6.1 (3.8) | 6.7 / 6.6 (4.2 / 4.1) |
| 2nd gear | km/h (mi/h) | 12.6 (7.8) | 12.6 (7.8) | 11.6 / 11.4 (7.2 / 7.1) |
| 3rd gear | km/h (mi/h) | 23.5 (14.6) | 23.5 (14.6) | 21.7 / 21.4 (13.5 / 13.3) |
| 4th gear | km/h (mi/h) | 38 (23.6) | 38 (23.6) | 36.5 / 36.1 (22.7 / 22.4) |
| Measured with tires | | 26.5 R25 L3 | 26.5 R25 L3 | 29.5 R25 L4 |
| Front axle/rear axle | | Volvo/AWB 40B/40C | Volvo/AWB 40B/40B | Volvo/AWB 50/41 |
| Rear axle oscillation | ± ° | 15 | 15 | 15 |
| Ground clearance at oscillation | mm (in) | 610 (24) | 610 (24) | 600 (23.6) |
| | ° | 15 | 15 | 15 |

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.

| | | L150H | L180H | L220H |
|--------------------------------|-----|----------|----------|----------|
| Voltage | V | 24 | 24 | 24 |
| Batteries | V | 2 x 12 | 2 x 12 | 2 x 12 |
| Battery capacity | Ah | 2 x 170 | 2 x 170 | 2 x 170 |
| Cold cranking capacity, approx | A | 1,000 | 1,000 | 1,000 |
| Alternator rating | W/A | 2,280/80 | 2,280/80 | 2,280/80 |
| Starter motor output | kW | 7 | 7 | 7 |

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. 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.

| | | L150H | L180H | L220H |
|--|---------|--------------------------|--------------------------|--------------------------|
| Number of brake discs per wheel front/rear | | 1/1 | 1/1 | 2/1 |
| | | 2 x 1.0 | 2 x 1.0 | 2 x 1.0 |
| | | + 3 x 0.5 | + 1 x 0.5 | + 1 x 0.5 |
| Accumulators | l (gal) | (2 x 0.26 + 3 x 0.13) | (2 x 0.26 + 1 x 0.13) | (2 x 0.26 + 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

| | | L150H | L180H | L220H |
|-----------------------------|---|--------------------------------------|-------------|-------------|
| Emergency exit: | | Use emergency hammer to break window | | |
| Ventilation | m ³ /min (yd ³ /min) | 9 (11.8) | 9 (11.8) | 9 (11.8) |
| Heating capacity | kW | 16 | 16 | 16 |
| Air conditioning (optional) | kW | 7.5 | 7.5 | 7.5 |

Lift Arm System

Torque Parallel linkage (TP-linkage) with high breakout torque and parallel action throughout the entire lifting range.

| | | L150H | L180H | L220H |
|---------------------|---------|------------|------------|------------|
| Lift cylinders | | 2 | 2 | 2 |
| Cylinder bore | mm (in) | 160 (6.3) | 180 (7.1) | 190 (7.5) |
| Piston rod diameter | mm (in) | 90 (3.5) | 90 (3.5) | 90 (3.5) |
| Stroke | mm (in) | 784 (30.9) | 788 (31) | 768 (30.2) |
| Tilt cylinder | | 1 | 1 | 1 |
| Cylinder bore | mm (in) | 220 (8.7) | 240 (9.4) | 250 (9.8) |
| Piston rod diameter | mm (in) | 110 (4.3) | 120 (4.7) | 120 (4.7) |
| Stroke | mm (in) | 452 (17.8) | 480 (18.9) | 455 (17.9) |

Volvo L150H, L180H, L220H in detail

Hydraulic system

System supply: Two load-sensing axial piston pumps with variable displacement. The steering function always has priority.
Valves: Double-acting 2-spool valve. The main valve is electro operated.
Lift function: The valve has four positions; raise, hold, lower and floating 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.

| | | L150H | L180H | L220H |
|---|-----------------|--------------|--------------|--------------|
| Working pressure maximum, pump 1 for working hydraulic system | MPa (bar) | 29 (290) | 29 (290) | 29 (290) |
| Flow | l/min (gal/min) | 180 (47.6) | 217 (57.3) | 252 (66.6) |
| at | MPa (bar) | 10 (100) | 10 (100) | 10 (100) |
| engine speed | r/min (r/s) | 1,900 (31.7) | 1,900 (31.7) | 1,900 (31.7) |
| Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system | MPa (bar) | 31 (310) | 31 (310) | 31 (310) |
| Flow | l/min (gal/min) | 202 (53.4) | 202 (53.4) | 202 (53.4) |
| at | MPa (bar) | 10 (100) | 10 (100) | 10 (100) |
| engine speed | r/min (r/s) | 1,900 (31.7) | 1,900 (31.7) | 1,900 (31.7) |
| Working pressure maximum, pump 3 for brake- and cooling fan system | MPa (bar) | 25 (250) | 25 (250) | 25 (250) |
| Flow | l/min (gal/min) | 83 (21.9) | 83 (21.9) | 83 (21.9) |
| at | MPa (bar) | 10 (100) | 10 (100) | 10 (100) |
| engine speed | r/min (r/s) | 1,900 (31.7) | 1,900 (31.7) | 1,900 (31.7) |
| Pilot system, working pressure | MPa (bar) | 3.5 (35) | 3.5 (35) | 3.5 (35) |
| Cycle times | | | | |
| Lift | s | 5.9 | 6.4 | 6.8 |
| Tilt | s | 2 | 1.8 | 1.6 |
| Lower, empty | s | 3.7 | 3.3 | 3.2 |
| Total cycle time | s | 11.6 | 11.5 | 11.6 |

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.

| | | L150H | L180H | L220H |
|----------------------|-----------------|------------|------------|------------|
| Steering cylinders | | 2 | 2 | 2 |
| Cylinder bore | mm (in) | 100 (3.9) | 100 (3.9) | 100 (3.9) |
| Rod diameter | mm (in) | 60 (2.4) | 60 (2.4) | 60 (2.4) |
| Stroke | mm (in) | 390 (15.4) | 525 (20.7) | 525 (20.7) |
| Working pressure | MPa (bar) | 21 (210) | 21 (210) | 21 (210) |
| Maximum flow | l/min (gal/min) | 202 (53.4) | 202 (53.4) | 202 (53.4) |
| Maximum articulation | ± ° | 37 | 37 | 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. Possibility to monitor, log and analyze data to facilitate troubleshooting.

| | | L150H | L180H | L220H |
|--------------------|---------|------------|------------|------------|
| Fuel tank | l (gal) | 366 (96.7) | 366 (96.7) | 366 (96.7) |
| DEF/AdBlue® tank | l (gal) | 31 (8.2) | 31 (8.2) | 31 (8.2) |
| Engine coolant | l (gal) | 55 (14.5) | 55 (14.5) | 55 (14.5) |
| Hydraulic oil tank | l (gal) | 156 (41.2) | 156 (41.2) | 226 (59.7) |
| Transmission oil | l (gal) | 48 (12.7) | 48 (12.7) | 48 (12.7) |
| Engine oil | l (gal) | 50 (13.2) | 50 (13.2) | 50 (13.2) |
| Axle oil front | l (gal) | 46 (12.2) | 46 (12.2) | 77 (20.3) |
| Axle oil rear | l (gal) | 55 (14.5) | 55 (14.5) | 71 (18.8) |

Sound Level

| | | L150H | L180H | L220H |
|--|----|-------|-------|-------|
| Sound pressure level in cab according to ISO 6396 | | | | |
| L _{pA} | dB | 69 | 70 | 70 |
| External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC | | | | |
| L _{WA} | dB | 108 | 108 | 109 |

Specifications

Tires L150H, L180H: 26.5 R25 L3. Tires L220H: 29.5 R25 L4

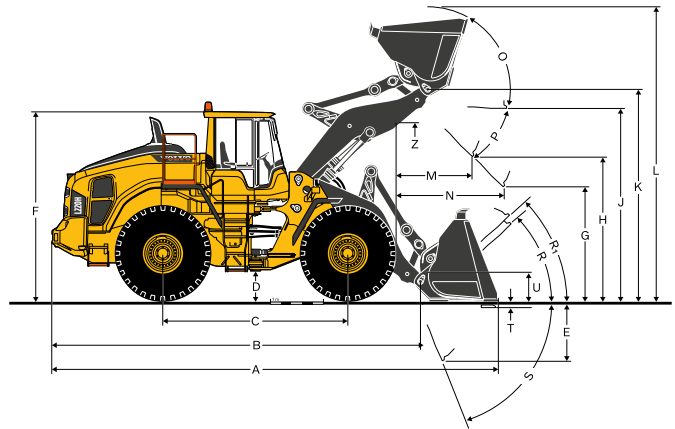
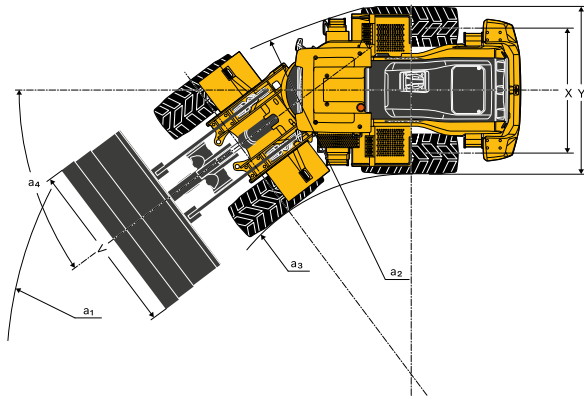
| | Standard boom | | | | | | Long boom | | | | | | | |
|------------------|---------------|-------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|
| | L150H | | L180H | | L220H | | L150H | | L180H | | L220H | | | |
| B | mm | ft in | 7,070 | 23'3" | 7,190 | 23'7" | 7,480 | 24'6" | 7,570 | 24'10" | 7,620 | 25'0" | 7,800 | 25'7" |
| C | mm | ft in | 3,550 | 11'8" | 3,550 | 11'8" | 3,700 | 12'2" | 3,550 | 11'8" | 3,550 | 11'8" | 3,700 | 12'2" |
| D | mm | ft in | 480 | 1'7" | 480 | 1'7" | 530 | 1'9" | 470 | 1'7" | 490 | 1'7" | 530 | 1'9" |
| F | mm | ft in | 3,580 | 11'9" | 3,580 | 11'9" | 3,730 | 12'3" | 3,570 | 11'9" | 3,590 | 11'9" | 3,730 | 12'3" |
| G | mm | ft in | 2,134 | 7'0" | 2,134 | 7'0" | 2,135 | 7'0" | 2,157 | 7'1" | 2,133 | 7'0" | 2,133 | 7'0" |
| J | mm | ft in | 3,920 | 12'10" | 4,060 | 13'4" | 4,230 | 13'11" | 4,490 | 14'9" | 4,560 | 14'11" | 4,600 | 15'1" |
| K | mm | ft in | 4,340 | 14'3" | 4,470 | 14'8" | 4,660 | 15'3" | 4,900 | 16'1" | 4,970 | 16'4" | 5,020 | 16'6" |
| O | ° | | 58 | | 57 | | 56 | | 59 | | 55 | | 56 | |
| Pmax | ° | | 50 | | 49 | | 48 | | 49 | | 49 | | 48 | |
| R | ° | | 45 | | 45 | | 43 | | 48 | | 48 | | 44 | |
| R ₁ * | ° | | 48 | | 48 | | 47 | | 53 | | 53 | | 49 | |
| S | ° | | 66 | | 71 | | 65 | | 61 | | 63 | | 63 | |
| T | mm | ft in | 93 | 0'3.7" | 131 | 0'5.1" | 119 | 0'4.7" | 149 | 0'5.9" | 207 | 0'8.2" | 121 | 0'4.8" |
| U | mm | ft in | 520 | 1'9" | 570 | 1'10" | 600 | 2'0" | 640 | 2'1" | 660 | 2'2" | 680 | 2'3" |
| X | mm | ft in | 2,280 | 7'6" | 2,280 | 7'6" | 2,400 | 7'10" | 2,280 | 7'6" | 2,280 | 7'6" | 2,400 | 7'10" |
| Y | mm | ft in | 2,960 | 9'9" | 2,960 | 9'9" | 3,150 | 10'4" | 2,960 | 9'9" | 2,960 | 9'9" | 3,150 | 10'4" |
| Z | mm | ft in | 3,510 | 11'6" | 3,810 | 12'6" | 4,050 | 13'3" | 3,960 | 13'0" | 4,180 | 13'8" | 4,380 | 14'5" |
| a ₂ | mm | ft in | 6,790 | 22'3" | 6,790 | 22'3" | 7,100 | 23'4" | 6,790 | 22'3" | 6,790 | 22'3" | 7,100 | 23'4" |
| a ₃ | mm | ft in | 3,820 | 12'7" | 3,820 | 12'7" | 3,960 | 13'0" | 3,820 | 12'7" | 3,820 | 12'7" | 3,960 | 13'0" |
| a ₄ | ±° | | 37 | | 37 | | 37 | | 37 | | 37 | | 37 | |

* Carry position SAE

Bucket: L150H: 4.0 m³ (5.2 yd³) GP STE PT SEG

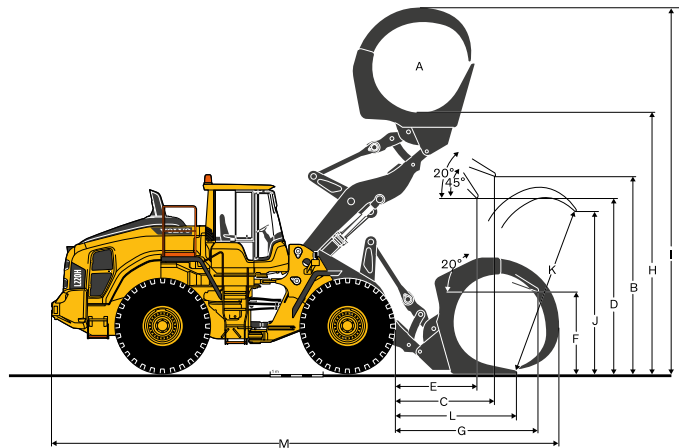
L180H: 4.6 m³ (6.0 yd³) GP STE PT SEG

L220H: 5.2 m³ (6.8 yd³) GP STE PT SEG



Tires L150H, L180H: 775/65 R29 L3 | Tires L220H: 875/65 R29 L4

| | L150H | | L180H | | L220H | | | |
|---|----------------|-----------------|-------|-------|-------|-------|--------|-------|
| A | m ² | yd ² | 3.1 | 3.7 | 3.5 | 4.2 | 4 | 4.8 |
| B | mm | in | 3,660 | 144.1 | 3,870 | 152.4 | 3,920 | 154.3 |
| C | mm | in | 2,110 | 83.1 | 2,150 | 84.6 | 2,270 | 89.4 |
| D | mm | in | 2,960 | 116.5 | 3,150 | 124.0 | 3,160 | 124.4 |
| E | mm | in | 1,650 | 65.0 | 1,720 | 67.7 | 1,780 | 70.1 |
| F | mm | in | 1,630 | 64.2 | 1,700 | 66.9 | 1,640 | 64.6 |
| G | mm | in | 2,930 | 115.4 | 3,040 | 119.7 | 3,230 | 127.2 |
| H | mm | in | 4,990 | 196.5 | 5,170 | 203.5 | 5,350 | 210.6 |
| I | mm | in | 7,270 | 286.2 | 7,610 | 299.6 | 7,730 | 304.3 |
| J | mm | in | 3,080 | 121.3 | 3,370 | 132.7 | 3,620 | 142.5 |
| K | mm | in | 3,340 | 131.5 | 3,710 | 146.1 | 3,940 | 155.1 |
| L | mm | in | 2,290 | 90.2 | 2,410 | 94.9 | 2,630 | 103.5 |
| M | mm | in | 9,680 | 381.1 | 9,980 | 392.9 | 10,380 | 408.7 |



L150H Sales code: WLA80713

Operating weight (incl. logging cw 1,140 kg (2,513 lb)):
25,660 kg (56,571 lb)

Operating load: 7,700 kg (16,976 lb)

L180H Sales code: WLA80027

Operating weight (incl. logging cw 1,140 kg (2,513 lb)):
28,470 kg (62,766 lb)

Operating load: 8,710 kg (19,202 lb)

L220H Sales code: WLA80852

Operating weight (incl. logging cw 870 kg (1,918 lb)):
32,810 kg (7,334 lb)

Operating load: 10,080 kg (22,223 lb)

Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.

Specifications

L150H

| Tires 26.5 R25 L3 | REHANDLING | | | | | | | | GENERAL PURPOSE | | | | | | ROCK*** | | LIGHT MATERIAL | | LONG BOOM* | | | |
|---------------------------------|--|-----------------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|------------|--------|--------|--------|
| | | | | | | | | | | | | | | | | | | | | | | |
| | 4.0 m ³ (5.2 yd ³) STE P BOE | | 4.4 m ³ (5.8 yd ³) STE P BOE | | 4.8 m ³ (6.3 yd ³) STE P BOE | | 5.2 m ³ (6.8 yd ³) STE P BOE | | 4.0 m ³ (5.2 yd ³) STE P T SEG | | 4.4 m ³ (5.8 yd ³) STE P T SEG | | 4.5 m ³ (5.9 yd ³) STE P T SEG | | 3.5 m ³ (4.6 yd ³) SPN P T SEG | | 6.8 m ³ (8.9 yd ³) LM P | | | | | |
| Volume, heaped ISO/SAE | m ³ | yd ³ | 4.0 | 5.2 | 4.4 | 5.8 | 4.8 | 6.3 | 5.2 | 6.8 | 4.0 | 5.2 | 4.4 | 5.8 | 4.5 | 5.9 | 3.5 | 4.6 | 6.8 | 8.9 | - | - |
| Volume at 110% fill factor | m ³ | yd ³ | 4.4 | 5.8 | 4.8 | 6.3 | 5.3 | 6.9 | 5.7 | 7.5 | 4.4 | 5.8 | 4.8 | 6.3 | 5.0 | 6.5 | 3.9 | 5 | 7.5 | 9.8 | - | - |
| Static tipping load, straight | kg | lb | 20,500 | 45,200 | 20,230 | 44,610 | 19,950 | 43,990 | 19,800 | 43,660 | 18,100 | 39,900 | 17,690 | 39,010 | 17,670 | 38,960 | 18,730 | 41,290 | 16,360 | 36,080 | -3,550 | -7,826 |
| at 35° turn | kg | lb | 18,320 | 40,390 | 18,050 | 39,810 | 17,780 | 39,200 | 17,630 | 38,880 | 16,190 | 35,700 | 15,780 | 34,800 | 15,760 | 34,760 | 16,730 | 36,890 | 14,520 | 32,010 | -3,270 | -7,209 |
| at full turn | kg | lb | 18,070 | 39,840 | 17,810 | 39,260 | 17,530 | 38,660 | 17,380 | 38,330 | 15,970 | 35,220 | 15,560 | 34,320 | 15,550 | 34,280 | 16,500 | 36,390 | 14,310 | 31,550 | -3,230 | -7,121 |
| Breakout force | kN | lbf | 201.3 | 45,250 | 191.7 | 43,090 | 183.2 | 41,190 | 182.7 | 41,070 | 202 | 45,340 | 192 | 43,220 | 184 | 41,460 | 188.0 | 42,270 | 140.0 | 31,480 | 9 | 2,023 |
| A | mm | ft in | 8,600 | 28'2" | 8,680 | 28'6" | 8,750 | 28'8" | 8,750 | 28'9" | 8,790 | 28'10" | 8,860 | 29'1" | 8,930 | 29'3" | 8,850 | 29'0" | 9,230 | 30'3" | 520 | 1'8" |
| E | mm | ft in | 1,230 | 4'1" | 1,300 | 4'3" | 1,360 | 4'6" | 1,370 | 4'6" | 1,400 | 4'7" | 1,460 | 4'9" | 1,520 | 5'0" | 1,450 | 4'9" | 1,790 | 5'10" | 10 | -0,4" |
| H**) | mm | ft in | 3,020 | 9'11" | 2,970 | 9'9" | 2,920 | 9'7" | 2,920 | 9'7" | 2,890 | 9'6" | 2,850 | 9'4" | 2,800 | 9'2" | 2,870 | 9'5" | 2,620 | 8'7" | 570 | 1'10" |
| L | mm | ft in | 5,720 | 18'9" | 5,770 | 18'11" | 5,880 | 19'3" | 5,870 | 19'3" | 5,880 | 19'3" | 5,990 | 19'8" | 6,040 | 19'10" | 5,970 | 19'7" | 6,140 | 20'2" | 570 | 1'10" |
| M**) | mm | ft in | 1,220 | 4'0" | 1,270 | 4'2" | 1,320 | 4'4" | 1,320 | 4'4" | 1,360 | 4'5" | 1,410 | 4'7" | 1,450 | 4'9" | 1,420 | 4'8" | 1,700 | 5'7" | -20 | -0,8" |
| N**) | mm | ft in | 1,800 | 5'11" | 1,830 | 6'0" | 1,860 | 6'1" | 1,860 | 6'1" | 1,880 | 6'2" | 1,910 | 6'3" | 1,930 | 6'4" | 1,930 | 6'4" | 1,960 | 6'5" | 450 | 1'6" |
| V | mm | in | 3,200 | 125" | 3,200 | 125" | 3,200 | 125" | 3,400 | 133" | 3,230 | 127" | 3,200 | 125" | 3,000 | 118" | 3,230 | 127" | 3,200 | 125" | 0 | - |
| a ₁ clearance circle | mm | ft in | 14,640 | 48'0" | 14,670 | 48'2" | 14,700 | 48'3" | 14,890 | 48'10" | 14,750 | 48'5" | 14,760 | 48'5" | 14,600 | 47'11" | 14,800 | 48'7" | 14,940 | 49'0" | 340 | 1'1" |
| Operating weight | kg | lb | 25,090 | 55,320 | 25,300 | 55,780 | 25,500 | 56,220 | 25,620 | 56,490 | 24,090 | 53,130 | 24,450 | 53,920 | 24,420 | 53,840 | 25,320 | 55,820 | 24,920 | 54,950 | 410 | 904 |

*) Measured with 4.0 m³ (5.2 yd³) GP bucket Note: This only applies to genuine Volvo attachments.

**) 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°.)

***) Measured with L5 tires

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 1.6 t/m³. Result: The 4.0 m³ bucket carries 4.2 m³. For optimum stability always consult the bucket selection chart.

| Material | Bucket fill, % | Material density | | ISO/SAE bucket volume | | Actual volume | |
|-------------|----------------|------------------|--------------------|-----------------------|-----------------|----------------|-----------------|
| | | t/m ³ | lb/yd ³ | m ³ | yd ³ | m ³ | yd ³ |
| Earth/Clay | ~ 110 | ~ 1.6 | ~ 2,698 | 4.0 | 5.2 | ~ 4.4 | ~ 5.8 |
| | | ~ 1.5 | ~ 2,530 | 4.4 | 5.8 | ~ 4.8 | ~ 6.3 |
| Sand/Gravel | ~ 105 | ~ 1.6 | ~ 2,698 | 4.0 | 5.2 | ~ 4.2 | ~ 5.5 |
| | | ~ 1.5 | ~ 2,530 | 4.4 | 5.8 | ~ 4.6 | ~ 6.0 |
| Aggregate | ~ 100 | ~ 1.8 | ~ 3,035 | 4.4 | 5.8 | ~ 4.4 | ~ 5.8 |
| | | ~ 1.7 | ~ 2,867 | 4.8 | 6.3 | ~ 4.8 | ~ 6.3 |
| | | ~ 1.5 | ~ 2,530 | 5.2 | 6.8 | ~ 5.2 | ~ 6.8 |
| Rock | ≤ 100 | ~ 1.7 | ~ 2,867 | 3.5 | 4.6 | ~ 3.5 | ~ 4.6 |

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

| Type of boom | Type of bucket | ISO/SAE Bucket volume | Material density: t/m ³ (lb/yd ³) | | | | | | |
|---|-----------------|---|--|---|------------|------------|------------|------------|------------|
| | | | 0.8 (1349) | 1.0 (1666) | 1.2 (2024) | 1.4 (2361) | 1.6 (2698) | 1.8 (3035) | 2.0 (3373) |
| Standard boom | Rehandl. * | 4.4 m ³ (5.8 yd ³) | | | | | 4.6 (6.0) | 4.4 (5.8) | |
| | | 4.8 m ³ (6.3 yd ³) | | | | 5.0 (6.5) | 4.8 (6.3) | | |
| | | 5.2 m ³ (6.8 yd ³) | | | 5.5 (7.2) | 5.2 (6.8) | | | |
| Standard boom | General purpose | 4.0 m ³ (5.2 yd ³) | | | | | 4.4 (5.8) | 4.0 (5.2) | |
| | | 4.4 m ³ (5.8 yd ³) | | | 4.8 (6.3) | 4.4 (5.8) | | | |
| | | 3.5 m ³ (4.6 yd ³) | | | | | 3.5 (4.6) | 3.3 (4.3) | |
| Standard boom | Light material | 6.8 m ³ (8.9 yd ³) | 6.8 (8.9) | | | | | | |
| | | Long boom | Rehandl. * | 4.0 m ³ (5.2 yd ³) | | | | 4.2 (5.5) | 4.0 (5.2) |
| | | | | 4.4 m ³ (5.8 yd ³) | | | 4.6 (6.0) | 4.4 (5.8) | |
| 3.7 m ³ (4.8 yd ³) | | | | | 4.1 (5.4) | 3.7 (4.8) | | | |
| Long boom | Rock | 3.5 m ³ (4.6 yd ³) | | | | | 3.5 (4.6) | 3.3 (4.3) | |
| | | Long boom | Light material | 6.8 m ³ (8.9 yd ³) | 6.8 (8.9) | | | | |











How to read bucket fill factor

* Including counterweight

Supplemental Operating Data

| Tires 26.5 R25 L3 | Standard boom | | | | | | | Long boom | | | | | | |
|-------------------------|---------------|----|-------------|------|---------------|--------|------|-------------|------|-------------|--------|---------------|------|--------|
| | 26.5 R25 L4 | | 26.5 R25 L5 | | 775/65 R29 L3 | | | 26.5 R25 L4 | | 26.5 R25 L5 | | 775/65 R29 L3 | | |
| Width over tires | mm | in | +5 | +0.2 | +30 | +1.2 | +180 | +7.1 | +5 | +0.2 | +30 | +1.2 | +180 | +7.1 |
| Ground clearance | mm | in | +18 | +0.7 | +30 | +1.2 | +10 | +0.4 | +18 | +0.7 | +30 | +1.2 | +10 | +0.4 |
| Tipping load, full turn | kg | lb | +250 | +551 | +760 | +1676 | +590 | +1,300 | +220 | +485 | +640 | +1,411 | +500 | +1,102 |
| Operating weight | kg | lb | +400 | +882 | +1,060 | +2,337 | +760 | +1,676 | +400 | +882 | +1,050 | +2,315 | +750 | +1,653 |

L180H

| Tires 26.5 R25 L3 | REHANDLING | | | | | | | | GENERAL PURPOSE | | | | | | ROCK*** | | LIGHT MATERIAL | | LONG BOOM* | | | |
|-------------------------------|---|---|---|---|---|--|---|---|---|---|--------|--------|--------|--------|---------|--------|----------------|--------|------------|--------|--------|-------|
| |  |  |  |  |  |  |  |  |  |  | | | | | | | | | | | | |
| | 4.8 m ³ (6.3 yd ³) STE P BOE | 5.2 m ³ (6.8 yd ³) STE P BOE | 5.5 m ³ (7.2 yd ³) STE P BOE | 5.8 m ³ (7.6 yd ³) STE P BOE | 4.4 m ³ (5.8 yd ³) STE P T SEG | 4.6 m ³ (6.0 yd ³) STE P T SEG | 4.8 m ³ (6.3 yd ³) STE P T SEG | 4.2 m ³ (5.5 yd ³) SPN P T SEG | 7.8 m ³ (10.2 yd ³) LM P | | | | | | | | | | | | | |
| Volume, heaped ISO/SAE | m ³ | yd ³ | 4.8 | 6.3 | 5.2 | 6.8 | 5.5 | 7.2 | 5.8 | 7.6 | 4.4 | 5.8 | 4.6 | 6 | 4.8 | 6.3 | 4.2 | 5.5 | 7.8 | 10.2 | - | - |
| Volume at 110% fill factor | m ³ | yd ³ | 5.3 | 6.9 | 5.7 | 7.5 | 6.1 | 7.9 | 6.4 | 8.3 | 4.8 | 6.3 | 5.1 | 6.6 | 5.3 | 6.9 | 4.6 | 6 | 8.6 | 11.2 | - | - |
| Static tipping load, straight | kg | lb | 23,670 | 52,190 | 23,520 | 51,860 | 23,350 | 51,480 | 23,210 | 51,180 | 21,540 | 47,500 | 21,560 | 47,540 | 21,360 | 47,090 | 22,250 | 49,060 | 20,430 | 45,040 | -3,820 | -8420 |
| at 35° turn | kg | lb | 21,010 | 46,330 | 20,860 | 46,000 | 20,700 | 45,630 | 20,570 | 45,350 | 19,140 | 42,200 | 19,150 | 42,230 | 18,960 | 41,810 | 19,750 | 43,560 | 18,070 | 39,850 | -3,480 | -7680 |
| at full turn | kg | lb | 20,710 | 45,660 | 20,560 | 45,330 | 20,390 | 44,970 | 20,260 | 44,680 | 18,860 | 41,600 | 18,880 | 41,620 | 18,690 | 41,200 | 19,470 | 42,930 | 17,800 | 39,260 | -3,450 | -7590 |
| Breakout force | kN | lbf | 224.9 | 50,570 | 224.2 | 50,420 | 216.2 | 48,600 | 210.0 | 47,230 | 235.9 | 53,050 | 236.0 | 53,060 | 226.4 | 50,910 | 212.6 | 47,790 | 173.5 | 39,000 | 3.9 | 870 |
| A | mm | ft in | 8,890 | 29'2" | 8,890 | 29'2" | 8,960 | 29'5" | 9,010 | 29'7" | 9,000 | 29'6" | 9,000 | 29'6" | 9,070 | 29'9" | 9,140 | 30'0" | 9,360 | 30'8" | 470 | 1'6" |
| E | mm | ft in | 1,430 | 4'8" | 1,430 | 4'8" | 1,490 | 4'11" | 1,540 | 5'1" | 1,530 | 5'0" | 1,530 | 5'0" | 1,590 | 5'3" | 1,650 | 5'5" | 1,860 | 6'1" | 20 | 0,6" |
| H**) | mm | ft in | 3,060 | 10'0" | 3,050 | 10'0" | 3,010 | 9'11" | 2,970 | 9'9" | 2,990 | 9'10" | 2,990 | 9'10" | 2,940 | 9'8" | 2,910 | 9'7" | 2,690 | 8'10" | 500 | 1'7" |
| L | mm | ft in | 6,010 | 19'9" | 6,010 | 19'9" | 6,040 | 19'10" | 6,110 | 20'0" | 6,130 | 20'1" | 6,170 | 20'3" | 6,180 | 20'3" | 6,320 | 20'9" | 6,300 | 20'8" | 500 | 1'7" |
| M**) | mm | ft in | 1,330 | 4'4" | 1,330 | 4'4" | 1,370 | 4'6" | 1,410 | 4'8" | 1,420 | 4'8" | 1,420 | 4'8" | 1,460 | 4'10" | 1,520 | 5'0" | 1,610 | 5'3" | 20 | 0,6" |
| N**) | mm | ft in | 1,960 | 6'5" | 1,960 | 6'5" | 1,990 | 6'6" | 2,000 | 6'7" | 2,020 | 6'7" | 2,020 | 6'7" | 2,040 | 6'8" | 2,080 | 6'10" | 2,050 | 6'9" | 410 | 1'4" |
| V | mm | in | 3,200 | 125" | 3,400 | 133" | 3,400 | 133" | 3,400 | 133" | 3,200 | 125" | 3,200 | 125" | 3,200 | 125" | 3,230 | 127" | 3,400 | 133" | - | - |
| a1 clearance circle | mm | ft in | 14,800 | 48'7" | 14,990 | 49'2" | 15,010 | 49'3" | 15,040 | 49'4" | 14,850 | 48'9" | 14,850 | 48'9" | 14,880 | 48'10" | 14,960 | 49'1" | 15,220 | 49'11" | - | 11" |
| Operating weight | kg | lb | 28,070 | 61,890 | 28,190 | 62,160 | 28,290 | 62,380 | 28,360 | 62,540 | 27,020 | 59,590 | 27,060 | 59,670 | 27,120 | 59,800 | 28,440 | 62,700 | 27,470 | 60,570 | 270 | 590 |






*) Measured with 4.6 m³ (6.0 yd³) GP bucket Note: This only applies to genuine Volvo attachments.

**) 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°.)

***) Measured with L5 tires

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 1.6 t/m³. Result: The 4.6 m³ bucket carries 4.8 m³. For optimum stability always consult the bucket selection chart

| Material | Bucket fill, % |  | Material density | | ISO/SAE bucket volume | | Actual volume | |
|-------------|----------------|---|------------------|--------------------|-----------------------|-----------------|----------------|-----------------|
| | | | t/m ³ | lb/yd ³ | m ³ | yd ³ | m ³ | yd ³ |
| Earth/Clay | ~ 110 |  | ~ 1.7 | ~ 2,867 | 4.9 | 6.4 | ~ 4.8 | ~ 6.3 |
| | | | ~ 1.6 | ~ 2,698 | 5.2 | 6.8 | ~ 5.1 | ~ 6.7 |
| | | | ~ 1.5 | ~ 2,530 | 5.4 | 7.1 | ~ 5.3 | ~ 6.9 |
| Sand/Gravel | ~ 105 |  | ~ 1.7 | ~ 2,867 | 4.4 | 5.8 | ~ 4.6 | ~ 6.0 |
| | | | ~ 1.6 | ~ 2,698 | 4.6 | 6.0 | ~ 4.8 | ~ 6.3 |
| | | | ~ 1.5 | ~ 2,530 | 4.8 | 6.3 | ~ 5.1 | ~ 6.7 |
| Aggregate | ~ 100 |  | ~ 1.8 | ~ 3,035 | 5.2 | 6.8 | ~ 5.2 | ~ 6.8 |
| | | | ~ 1.7 | ~ 2,867 | 5.5 | 7.2 | ~ 5.5 | ~ 7.2 |
| | | | ~ 1.6 | ~ 2,698 | 5.8 | 7.6 | ~ 5.8 | ~ 7.6 |
| Rock | ≤ 100 |  | ~ 1.7 | ~ 2,867 | 4.3 | 5.6 | ~ 4.3 | ~ 5.6 |

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

| Type of boom | Type of bucket | ISO/SAE Bucket volume | Material density: t/m ³ (lb/yd ³) | | | | | |
|---|---|--|--|------------|------------|------------|------------|------------|
| | | | 0,8 (1349) | 1,0 (1686) | 1,2 (2024) | 1,4 (2361) | 1,6 (2698) | 1,8 (3035) |
| Standard boom | Rehandl. * | 5,2 m ³ (6,8 yd ³) | | | | | 5,5 (7,2) | 5,2 (6,8) |
| | | 5,5 m ³ (7,2 yd ³) | | | | 5,8 (7,6) | 5,5 (7,2) | |
| | | 5,8 m ³ (7,6 yd ³) | | 6,1 (8,0) | | | 5,8 (7,6) | |
| | General purpose | 4,4 m ³ (5,8 yd ³) | | | | | 4,8 (6,3) | 4,4 (5,8) |
| 4,6 m ³ (6,0 yd ³) | | | | | | 5,1 (6,7) | 4,6 (6,0) | |
| 4,8 m ³ (6,3 yd ³) | | | | | 5,3 (6,9) | | 4,8 (6,3) | |
| Long boom | Rock | 4,2 m ³ (5,5 yd ³) | | | | | 4,2 (5,5) | 4,0 (5,2) |
| | | 7,8 m ³ (10,0 yd ³) | 7,8 (10,0) | | | | | |
| | Rehandl. * | 4,8 m ³ (6,3 yd ³) | | | | | 5,0 (6,5) | 4,8 (6,3) |
| | | 5,2 m ³ (6,8 yd ³) | | | | | 5,5 (7,2) | 5,2 (6,8) |
| General purpose | 4,4 m ³ (5,8 yd ³) | | | | | 4,8 (6,3) | 4,4 (5,8) | |
| | 4,2 m ³ (5,5 yd ³) | | | | | 4,2 (5,5) | 4,0 (5,2) | |
| Light material | Light material | 7,8 m ³ (10,0 yd ³) | 7,8 (10,0) | | | | | |
| | | | | | | | | |

How to read bucket fill factor











* Including counterweight

Supplemental Operating Data

| Tires 26.5 R25 L3 | Standard boom | | | | | | | Long boom | | | | | | |
|-------------------------|---------------|----|-------------|-------------|---------------|-------|------|-------------|-------------|---------------|--------|-------|--------|-------|
| | | | 26.5 R25 L4 | 26.5 R25 L5 | 775/65 R29 L3 | | | 26.5 R25 L4 | 26.5 R25 L5 | 775/65 R29 L3 | | | | |
| Width over tires | mm | in | +5 | +0.2 | +30 | +1.2 | +130 | +5.1 | +5 | +0.2 | +30 | +1.2 | +130 | +5.1 |
| Ground clearance | mm | in | +18 | +0.7 | +40 | +1.6 | +10 | +0.4 | +18 | +0.7 | +40 | +1.6 | +10 | +0.4 |
| Tipping load, full turn | kg | lb | +280 | +617 | +770 | +30.3 | +600 | +23.6 | +250 | +551 | +760 | +29.9 | +530 | +20.9 |
| Operating weight | kg | lb | +400 | +882 | +1,050 | +2315 | +920 | +36.2 | +400 | +882 | +1,050 | +2315 | +1,120 | +44.1 |

Specifications

L220H

| Tires 29.5 R25 L3 | REHANDLING | | | | | | | | GENERAL PURPOSE | | | | | | | ROCK*** | | LIGHT MATERIAL | | LONG BOOM* | | |
|-------------------------------|---|---|---|---|---|--|---|---|---|---|--------|--------|--------|--------|--------|---------|--------|----------------|--------|------------|--------|-------|
| |  |  |  |  |  |  |  |  |  |  | | | | | | | | | | | | |
| | 5.6 m ³ (7.3 yd ³) STE P BOE | 5.9 m ³ (7.7 yd ³) STE P BOE | 6.3 m ³ (8.2 yd ³) STE P BOE | 4.9 m ³ (6.4 yd ³) STE P T SEG | 5.2 m ³ (6.8 yd ³) STE P T SEG | 5.6 m ³ (7.3 yd ³) STE P T SEG | 4.5 m ³ (5.9 yd ³) SPN P T SEG | 5.0 m ³ (6.5 yd ³) SPN P T SEG | 8.2 m ³ (10.7 yd ³) LM P | | | | | | | | | | | | | |
| Volume, heaped ISO/SAE | m ³ | yd ³ | 5.6 | 7.3 | 5.9 | 7.7 | 6.3 | 8.2 | 4.9 | 6.4 | 5.2 | 6.8 | 5.6 | 7.3 | 4.5 | 5.9 | 5.0 | 6.5 | 8.2 | 10.7 | 0 | - |
| Volume at 110% fill factor | m ³ | yd ³ | 6.2 | 8.1 | 6.5 | 8.5 | 6.9 | 9.1 | 5.4 | 7 | 5.7 | 7.5 | 6.2 | 8.1 | 5.0 | 6.5 | 5.5 | 7.2 | 9.0 | 11.8 | 0 | - |
| Static tipping load, straight | kg | lb | 25,270 | 55,710 | 25,140 | 55,430 | 24,960 | 55,030 | 23,960 | 52,840 | 23,900 | 52,700 | 23,600 | 52,030 | 24,900 | 54,900 | 23,770 | 52,410 | 22,820 | 50,310 | -2,890 | -6370 |
| at 35° turn | kg | lb | 22,420 | 49,430 | 22,290 | 49,160 | 22,120 | 48,770 | 21,280 | 46,930 | 21,220 | 46,790 | 20,940 | 46,160 | 22,150 | 48,840 | 21,090 | 46,500 | 20,190 | 44,510 | -2,650 | -5840 |
| at full turn | kg | lb | 22,090 | 48,720 | 21,970 | 48,440 | 21,800 | 48,060 | 20,980 | 46,250 | 20,910 | 46,110 | 20,630 | 45,500 | 21,840 | 48,150 | 20,780 | 45,830 | 19,890 | 43,850 | -2,620 | -5780 |
| Breakout force | kN | lbf | 228.9 | 51,460 | 223.1 | 50,150 | 215.0 | 48,330 | 255.9 | 57,530 | 244.5 | 54,990 | 229.0 | 51,490 | 211.5 | 47,560 | 196.5 | 44,190 | 190.8 | 42,900 | 3.4 | 670 |
| A | mm | ft in | 9,270 | 30'5" | 9,310 | 30'7" | 9,380 | 30'9" | 9,310 | 30'7" | 9,350 | 30'8" | 9,460 | 31'0" | 9,580 | 31'5" | 9,730 | 31'11" | 9,580 | 31'5" | 3.1 | 1' |
| E | mm | ft in | 1,470 | 4'10" | 1,510 | 4'11" | 1,570 | 5'2" | 1,510 | 4'11" | 1,540 | 5'1" | 1,640 | 5'5" | 1,730 | 5'8" | 1,860 | 6'1" | 1,750 | 5'9" | -30 | -0.6" |
| H**) | mm | ft in | 3,160 | 10'4" | 3,130 | 10'3" | 3,080 | 10'1" | 3,130 | 10'3" | 3,110 | 10'3" | 3,040 | 9'11" | 3,030 | 9'11" | 2,930 | 9'7" | 2,910 | 9'7" | 370 | 12" |
| L | mm | ft in | 6,260 | 20'6" | 6,290 | 20'7" | 6,370 | 20'11" | 6,370 | 20'11" | 6,440 | 21'2" | 6,440 | 21'1" | 6,450 | 21'2" | 6,510 | 21'4" | 6,450 | 21'2" | 360 | 12" |
| M**) | mm | ft in | 1,400 | 4'7" | 1,440 | 4'9" | 1,480 | 4'10" | 1,430 | 4'8" | 1,470 | 4'10" | 1,560 | 5'1" | 1,700 | 5'7" | 1,800 | 5'11" | 1,610 | 5'3" | -30 | -0.6" |
| N**) | mm | ft in | 2,100 | 6'11" | 2,120 | 7'0" | 2,150 | 7'1" | 2,120 | 6'11" | 2,160 | 7'1" | 2,200 | 7'3" | 2,250 | 7'5" | 2,300 | 7'6" | 2,180 | 7'2" | 270 | 10' |
| V | mm | in | 3,400 | 133" | 3,400 | 133" | 3,400 | 133" | 3,430 | 135" | 3,400 | 133" | 3,400 | 133" | 3,430 | 135" | 3,430 | 135" | 3,700 | 145" | - | - |
| a1 clearance circle | mm | ft in | 15,570 | 51'8" | 15,590 | 51'2" | 15,620 | 51'3" | 15,610 | 51'3" | 15,610 | 51'3" | 15,670 | 51'5" | 15,770 | 51'9" | 15,850 | 52'0" | 16,020 | 52'7" | - | - |
| Operating weight | kg | lb | 31,950 | 70,440 | 32,020 | 70,610 | 32,130 | 70,850 | 31,160 | 68,710 | 31,190 | 68,770 | 31,260 | 68,920 | 32,710 | 72,130 | 33,130 | 73,050 | 31,660 | 69,800 | 380 | 860 |






*) Measured with 5.2 m³ (6.8 yd³) bucket Note: This only applies to genuine Volvo attachments.

**) 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°.)

**) Measured with L5 tires

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 1.6 t/m³. Result: The 5.2 m³ bucket carries 5.5 m³. For optimum stability always consult the bucket selection chart.

| Material | Bucket fill, % |  | Material density | | ISO/SAE bucket volume | | Actual volume | |
|-------------|----------------|---|------------------|--------------------|-----------------------|-----------------|----------------|-----------------|
| | | | t/m ³ | lb/yd ³ | m ³ | yd ³ | m ³ | yd ³ |
| Earth/Clay | ~ 110 |  | ~ 1.6 | ~ 2,698 | 4.9 | 6.4 | ~ 5.4 | ~ 7.1 |
| | | | ~ 1.5 | ~ 2,530 | 5.2 | 6.8 | ~ 5.7 | ~ 7.5 |
| | | | ~ 1.4 | ~ 2,361 | 5.4 | 7.1 | ~ 5.9 | ~ 7.7 |
| Sand/Gravel | ~ 105 |  | ~ 1.7 | ~ 2,867 | 4.9 | 6.4 | ~ 5.1 | ~ 6.7 |
| | | | ~ 1.6 | ~ 2,698 | 5.2 | 6.8 | ~ 5.5 | ~ 7.2 |
| | | | ~ 1.5 | ~ 2,530 | 5.4 | 7.1 | ~ 5.7 | ~ 7.5 |
| Aggregate | ~ 100 |  | ~ 1.8 | ~ 3,035 | 5.6 | 7.3 | ~ 5.6 | ~ 7.3 |
| | | | ~ 1.7 | ~ 2,867 | 5.9 | 7.7 | ~ 5.9 | ~ 7.7 |
| | | | ~ 1.6 | ~ 2,698 | 6.3 | 8.2 | ~ 6.3 | ~ 8.2 |
| Rock | ≤ 100 |  | ~ 1.7 | ~ 2,867 | 4.5 | 5.9 | ~ 4.5 | ~ 5.9 |

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

| Type of boom | Type of bucket | ISO/SAE Bucket volume | Material density: t/m ³ (lb/yd ³) | | | | | |
|---------------|---|--|--|------------|------------|------------|------------|------------|
| | | | 0.8 (1349) | 1.0 (1686) | 1.2 (2024) | 1.4 (2361) | 1.6 (2698) | 1.8 (3035) |
| Standard boom | Rehanding* | 5.6 m ³ (7.3 yd ³) | | | | | 5.9 (7.7) | 5.6 (7.3) |
| | | 5.9 m ³ (7.7 yd ³) | | | | | 6.2 (8.1) | 5.9 (7.7) |
| | | 6.3 m ³ (8.2 yd ³) | | | | 6.6 (8.6) | 6.3 (8.2) | |
| | General purpose | 4.9 m ³ (6.4 yd ³) | | | | | 5.4 (7.1) | 4.9 (6.4) |
| | | 5.2 m ³ (6.8 yd ³) | | | | | 5.7 (7.5) | 5.2 (6.8) |
| | | 5.6 m ³ (7.3 yd ³) | | | | 6.2 (8.1) | 5.6 (7.3) | |
| Rock | 4.5 m ³ (5.9 yd ³) | | | | | | 4.5 (5.9) | 4.3 (5.6) |
| | 5.0 m ³ (6.5 yd ³) | | | | | | 5.0 (6.5) | 5.3 (6.9) |
| Long boom | Light material | 8.2 m ³ (10.7 yd ³) | 8.2 (10.7) | | | | | |
| | | | | | | | | |
| | Rehanding* | 5.6 m ³ (7.3 yd ³) | | | | | 5.9 (7.7) | 5.6 (7.3) |
| | | 5.9 m ³ (7.7 yd ³) | | | | | 6.2 (8.1) | 5.9 (7.7) |
| | General purpose | 4.9 m ³ (6.4 yd ³) | | | | | 5.4 (7.1) | 4.9 (6.4) |
| | | 5.2 m ³ (6.8 yd ³) | | | | | 5.7 (7.5) | 5.2 (6.8) |
| Rock | 4.5 m ³ (5.9 yd ³) | | | | | | 4.5 (5.9) | 4.3 (5.6) |
| | 5.0 m ³ (6.5 yd ³) | | | | | | 5.0 (6.5) | 5.3 (6.9) |

How to read bucket fill factor

* Including counterweight

Supplemental Operating Data

| Tires 29.5 R25 L4 | Standard boom | | | | | | | Long boom | | | | | | |
|-------------------------|---------------|----|-------------|-------------|---------------|-------|------|-------------|-------------|---------------|--------|-------|------|-------|
| | | | 29.5 R25 L3 | 29.5 R25 L5 | 875/65 R29 L4 | | | 29.5 R25 L3 | 29.5 R25 L5 | 875/65 R29 L4 | | | | |
| Width over tires | mm | in | -20 | -0.8 | +35 | +1.4 | +95 | +3.7 | -20 | -0.8 | +35 | +1.4 | +95 | +3.7 |
| Ground clearance | mm | in | ±0 | ±0 | +40 | +1.6 | -10 | -0.4 | ±0 | ±0 | +40 | +1.6 | -20 | -0.8 |
| Tipping load, full turn | kg | lb | -100 | -3.9 | +1,010 | +39.8 | +180 | +7.1 | -90 | -3.5 | +930 | +36.6 | +180 | +7.1 |
| Operating weight | kg | lb | -80 | -3.2 | +1,490 | +58.7 | +650 | +25.6 | -80 | 3.2 | +1,500 | +59.1 | +650 | +25.6 |

Equipment

| STANDARD EQUIPMENT | | | |
|---|-------|-------|-------|
| | L150H | L180H | L220H |
| Engine | | | |
| Exhaust after-treatment system | • | • | • |
| Two stage air cleaner, pre-cleaner, primary and secondary filter | • | • | • |
| 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 | • | • | • |
| Indicator glass for transmission oil level | • | • | • |
| Differentials: Front, 100% hydraulic diff lock. Rear, conventional. | • | • | • |
| Optishift 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: | | | |
| Fuel level | | | |
| Diesel Exhaust Fluid/AdBlue level | • | • | • |
| Transmission temperature | | | |
| Coolant temperature | | | |
| Instrument lighting | | | |
| 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) | | | |

| STANDARD EQUIPMENT | | | |
|--|-------|-------|-------|
| | L150H | L180H | L220H |
| Contronic Monitoring System | | | |
| Monitoring and logging of machine data | • | • | • |
| Contronic display | • | • | • |
| Fuel consumption | • | • | • |
| Diesel Exhaust Fluid/AdBlue consumption | • | • | • |
| Ambient temperature | • | • | • |
| Clock | • | • | • |
| Test function for warning and indicator lights | • | • | • |
| Brake test | • | • | • |
| Test function, sound level at max fan speed | • | • | • |
| Warning and indicator lights: | | | |
| Battery charging | • | • | • |
| Parking brake | | | |
| Warning and display message: | | | |
| Regeneration | | | |
| Engine coolant temperature | | | |
| Charge-air temperature | | | |
| Engine oil temperature | | | |
| Engine oil pressure | | | |
| Transmission oil temperature | | | |
| Transmission oil pressure | | | |
| Hydraulic oil temperature | | | |
| Brake pressure | • | • | • |
| Parking brake applied | | | |
| Brake charging | | | |
| Overspeed at direction change | | | |
| Axle oil temperature | | | |
| Steering pressure | | | |
| Crankcase pressure | | | |
| Attachment lock open | | | |
| Safety Belt Warning | | | |
| Level warnings: | | | |
| Fuel level | | | |
| Diesel Exhaust Fluid/AdBlue level | | | |
| Engine oil level | • | • | • |
| Engine coolant level | | | |
| Transmission oil level | | | |
| Hydraulic oil level | | | |
| Washer fluid level | | | |
| Engine torque reduction in case of malfunction indication: | | | |
| High engine coolant temperature | • | • | • |
| High engine oil temperature | | | |
| Low engine oil pressure | | | |
| High crankcase pressure | | | |
| High charge-air temperature | | | |
| Engine shutdown to idle in case of malfunction indication: | | | |
| High transmission oil temperature | • | • | • |
| Slip in transmission clutches | | | |
| Keypad, background lit | • | • | • |
| Start interlock when gear is engaged | • | • | • |

Equipment

| STANDARD EQUIPMENT | | | |
|---|-------|-------|-------|
| | L150H | L180H | L220H |
| Hydraulic system | | | |
| Main valve, double acting 2-spool with hydraulic pilots | • | • | • |
| Variable displacement axial piston pumps (3) for: | | | |
| 1 Working hydraulics, Pilot hydraulics and Brake system | • | • | • |
| 2 Working hydraulics, Pilot hydraulics, Steering and Brake system | | | |
| 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 | | | |
|--|-------|-------|-------|
| | L150H | L180H | L220H |
| 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 | • | • | • |
| 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 | | | |
| Engine compartment | • | • | • |
| Radiator grille | | | |
| Lifting eyes | • | • | • |
| Tie-down eyes | • | • | • |
| Fabricated counterweight | • | • | • |
| Counterweight, pre-drilled for optional guards | • | • | • |

| OPTIONAL EQUIPMENT | | | |
|---|-------|-------|-------|
| | L150H | L180H | L220H |
| 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 | • | • | • |
| Hand throttle control | • | • | • |
| Max. fan speed, hot climate | • | • | • |
| Radiator, corrosion-protected | • | • | • |
| Reversible cooling fan | • | • | • |
| Reversible cooling fan and axle oil cooler | • | • | • |
| Tires | | | |
| 26.5 R25 | • | • | – |
| 775/65 R29 | • | • | – |
| 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 | • | • | • |
| Emergency stop | • | • | • |
| Locking device, Tag out Lock out | • | • | • |
| Headlights, assym. left | • | • | • |
| License plate holder, lighting | • | • | • |
| Rear vision system, colour LCD monitor in the cab | • | • | • |
| Rear view mirrors, Long arm | • | • | • |
| Rear view mirrors, adjustable, el.heated, Long arm | • | • | • |
| Reduced function working lights, reverse gear activated | • | • | • |
| Reverse alarm, audible | • | • | • |
| Reverse alarm, white noise | • | • | • |
| Reverse warning light, strobe lighting | • | • | • |
| Shortened headlight support brackets | • | • | • |
| Side marker lamps | • | • | – |
| Warning beacon LED | • | • | • |
| Warning beacon LED automatic | • | • | • |
| LED Head Light | • | • | • |
| LED tail light | • | • | • |
| LED working lights, attachments | • | • | • |
| LED working lights on cab, front and rear | • | • | • |
| LED working lights on cab, front, 2 alt. 4 LED lamps | • | • | • |
| LED working lights on cab, rear, 2 alt. 4 LED lamps | • | • | • |
| LED working lights, rear in grille, 2 LED lamps | • | • | • |
| LED working lights, front above head lamps, 2 LED lamps | • | • | • |
| LED work lights, side on cab, 4 LED lamps | • | • | • |
| LED light packages | • | • | • |
| Working lights halogen, attachments | • | • | • |
| Working lights on cab halogen, front and rear | • | • | • |
| Working lights on cab halogen, rear | • | • | • |
| Electrical distribution unit 24 volt | • | • | • |
| Alternator 120 amp, heavy-duty | • | • | • |
| Load Assist | • | • | • |
| Radar detect system | • | • | • |
| Forward camera, colour | • | • | • |
| Parking brake alarm, audible for air susp seats | • | • | • |
| Jump start connector, NATO-Type | • | • | • |

| OPTIONAL EQUIPMENT | | | |
|--|-------|-------|-------|
| | L150H | L180H | L220H |
| Hydraulic system | | | |
| Boom suspension system | • | • | • |
| Separate attachment locking | • | • | • |
| Arctic kit, for 3rd function | • | • | • |
| Boom cylinder hose and tube guards | • | • | • |
| Hydraulic fluid, biodegradable, Volvo | • | • | • |
| Hydraulic fluid, fire-resistant | • | • | • |
| Hydraulic fluid, for hot climate | • | • | • |
| Hydraulic 3rd function | • | • | • |
| hydraulic 3rd-4th function | • | • | • |
| Single lever control, hydraulics 2 functions | • | • | • |
| Single lever control, hydraulics 3 functions | • | • | • |
| Single lever control, hydraulics 4 functions | • | • | • |
| Brake System | | | |
| Oil cooler and filter front & rear axle | • | • | • |
| Stainless steel, brake lines | • | • | – |
| 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 | • | • | • |
| 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) | • | • | • |
| 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 | • | • | • |

Equipment

| OPTIONAL EQUIPMENT | | | |
|---|-------|-------|-------|
| | L150H | L180H | L220H |
| Service and Maintenance | | | |
| Automatic lubrication system | • | • | • |
| Automatic lubrication system for long boom | • | • | • |
| Grease nipple guards | • | • | • |
| Oil sampling valve | • | • | • |
| Refill pump for grease to lube system | • | • | • |
| Tool kit | • | • | • |
| Wheel nut wrench kit | • | • | • |
| CareTrack, GSM, GSM/Satellite | • | • | • |
| Telematics, Subscription | • | • | • |
| Protective Equipment | | | |
| Belly guard front | • | • | • |
| Belly guard rear | • | • | • |
| 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 | • | • | • |
| Corrosion protection, painting of attachment bracket | • | • | – |
| Bucket Teeth protection | • | • | – |
| External Equipment | | | |
| Cab ladder, rubber-suspended | • | • | • |
| Deleted front mudguards | • | • | • |
| Fire suppression system | • | • | • |
| Mudguards, full cover, front and rear for 80-series tires | • | • | • |
| Mudguards, full cover, front and rear for 65-series tires | • | • | • |
| Long boom | • | • | • |
| Tow hitch | • | • | • |

| OPTIONAL EQUIPMENT | | | |
|---|-------|-------|-------|
| | L150H | L180H | L220H |
| Other Equipment | | | |
| CE-marking | • | • | • |
| Comfort Drive Control (CDC) | • | • | • |
| Counterweight, logging | • | • | • |
| Counterweight, signal painted, chevrons | • | – | – |
| Secondary steering with automatic test function | • | • | • |
| Sound decal, EU | • | • | • |
| Sound decal, USA | • | • | • |
| Reflecting stickers (decals), machine contour | • | • | • |
| Reflecting stickers (stripes), machine contour | • | • | • |
| Noise reduction kit, exterior | • | • | • |
| Sign, 50 km/h | • | – | – |
| 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 | • | • | • |
| Fork equipment | • | • | • |
| Material handling arm | • | • | • |
| Log grapples | • | • | • |

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Additional auxiliary hydraulics



Central lubrication system



Fire suppression system



External axle oil cooling



LED light packages



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.

VOLVO

Volvo Construction Equipment

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