

Item # 183

Volvo L60H Wheel Loader

Vendor Contact Information:

Kevin Gray Governmental Sales Manager Alta Construction Equipment Florida 8418 Palm River Road Tampa, FL 33619

Office: 813-630-0077 Cell: 813-391-8159

Email: kgray@altaequipfl.com



| Description | Article |
|---|--|
| Volvo L60H, Wheel Loader | L60H |
| 20.5R25* BR VJT | WL20016 |
| 4-Rims (3pc) for 20.5 or 600 tires | WL21004 |
| Engine D6J (Tier 4F) US | WL32017 |
| Max Fan Speed | WL30002 |
| Fuel fill strainer | WL30007 |
| Delayed Engine Shutdown | WL30024 |
| Reversible Cooling Fan | WL37001 |
| Volvo Air Suspension Seat | WL41010 |
| Air conditioning with ACC (automatic climate control) | WL42001 |
| Steering knob | WL45001 |
| Sliding window in door | WL45003 |
| ACC Farenheit decal only | WL45004 |
| Universal key | WL45005 |
| Cab Ladder, Rubber Suspended | WL45006 |
| Lunch box holder | WL45023 |
| Anchorage manual | WL45027 |
| LH Armrest | WL45040 |
| Co-Pilot Including RV Camera | WL45057 |
| Work Lights, Dual Front | WL50008 |
| Work Lights, Dual Rear | WL50010 |
| LOTO | WL53009 |
| Back up alarm | WL54001 |
| Footsteps front frame | WL71005 |
| Footstep, right side | WL71009 |
| Decals, English & Spanish | WL83001 |
| Cover plates, rear frame | WL86013 |
| Lifetime Frame Warranty | WL86041 |
| CareTrack, GSM/Satellite capable | WL88018 |
| CareTrack 4 yr subscription | WL88010 |
| 98" 3.0 yd3 HD GP Bucket, Pin On | WLA86411 |
| 98" 3pc Bolt-on edge kit, STE only | WLA80134 |
| | nerver menges en reges blevere fils vært eller b |

L60H, L70H, L90H_{2.0}

Volvo Wheel Loaders 11.0-17.3 t / 24,250-38,140 lb 165-184 hp



WELCOME TO OUR WORLD

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

Working harder, working smarter

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.



Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.

BUILDING TOMORROW

47 13

Multitude of talents

Say hello to the latest additions to the H-Series wheel loaders: the upgraded L60H, L70H and L90H. Built on the established H-Series design, the next-generation machines are the ultimate all-arounders, offering the high quality performance you'd expect from a Volvo wheel loader, plus a host of features that promote greater versatility and stability to handle your workload.

Designed to do more

Knock heavy-duty jobs down to size with the H-Series wheel loaders. These robust workhorses offer unshakable stability thanks to the new, optimized loading unit weight and redesigned counterweight. Designed to do more, the well-balanced machines yield up to 3% higher tipping load, so you can tackle a variety of tasks — no matter how demanding.



Adapt to any application

Get the most out of your machine with a range of purpose-built attachments, including grapples, sweepers, material handling arms, snow plows and more. Because different jobs require different attachments, we can custom build a Volvo attachment to match your specific needs. To unlock the use of multiple attachments, simply engage the third and fourth hydraulic functions.



Fully loaded

Whatever the job, we have the tools to get it done. Volvo offers a full range of Volvo buckets, including general purpose, grading, refuse, light material, and more, to handle everything, from light material to heavy rocks. Built on decades of engineering excellence, Volvo buckets are optimized for Volvo wheel loaders and durably designed for all types of materials and tasks.



Made to match

Lift your machine's versatility to the next level with pallet forks, offering high visibility and the advantage of TP linkage and parallel movement. Ideal for pallet and material handling, Volvo forks are heavy-duty in design, allowing the wheel loader to move effortlessly around different work sites, such as yards, warehouses and harbors.



LOADED WITH VERSATILITY

Take on any application with the H-Series wheel loaders, equipped with the Torque Parallel (TP) linkage for ultimate versatility. Not only does the TP linkage offer high breakout, tilt in and lifting forces, it keeps the attachments parallel throughout the lifting range for exceptional load stability and easy bucket filling. Change tools in a matter of seconds with the Volvo attachment bracket.





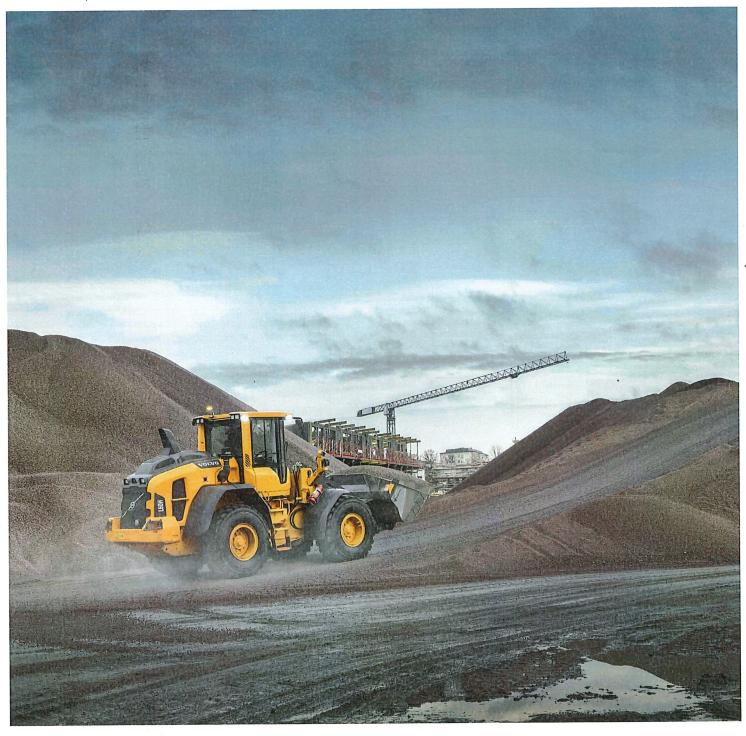
L90H: tried and trusted

"You need height with your loader bucket to drop material and fluff so it moves smoother through the conveyors. This Volvo loader increases our ability to take in more market share and make our operation sustainable in terms of revenue."

Jason Yorks, Resource Recovery Manager and Recycling Coordinator, Lycoming County Resource Management Services, Pennsylvania (USA)

UP TO 20% MORE EFFICIENT

Achieve up to 20% greater fuel efficiency thanks to advanced features, such as Eco pedal and the new optional lock-up* function. The lock-up feature eliminates losses in the torque converter by creating a direct drive between the engine and transmission, which work in harmony with the axles. To improve cycle times and fuel use, customize the lock-up engagement of your machine. (*with gear selection engagement, ranging from gears 2-4, 3-4, 4) Lock-up is not available on L60H



Drive down your costs

Get the most out of your investment with a cost-effective solution. At Volvo, we're committed to driving your operating costs down. That's why we've refined the mid-sized H-Series wheel loaders to deliver up to 20% greater fuel efficiency and optimize productivity.

Productivity up, fuel down

Cut operating costs and propel your machine's productivity with rimpull control. With the power to control the rimpull, the operator can reduce tire wear and prevent wheel spin for effective bucket filling. Select the optimum rimpull to match the application and ground conditions, and experience high productivity at low costs.

Work smarter

For the best use of engine power in all applications, rely on Smart Control, designed to optimize fuel efficiency and performance. Standard on the mid-sized H-Series wheel loaders, Smart Control ensures the correct torque in all situations for perfect harmony between the engine and hydraulics.



Do more on and off road

Do more on and off road with an increased top speed of 50km/h (31 mph). Not only is the machine faster, it is also a pleasure to operate thanks to the optional lock-up feature, which improves drive response and incline performance.



Boost your profitability

Ensure a low total cost of ownership with a host of Productivity Services and Fuel Efficiency Services. From reports, training packages and consultancy solutions, Volvo has you covered – just speak to your dealer for more information.



Comfortably in control

It's not just the machine that's ready for any challenge. From the comfort and security of the spacious Volvo cab, the operator is primed for a productive work shift.

Safety as standard

Safe from the inside out, the latest loaders feature anti-slip steps and strategically placed handrails for ease of access, plus an array of seatbelt options, such as the orange three-point seatbelt. The attachment bracket uses a new visual indicator to let you know the attachment is locked and ready to use.



Take command

Customize your Volvo and take command of hydraulic functions with electro servo controls*. From the cab, adjust the detent third function, boom kick-out, return to dig and bucket leveling. Easily change between linear or single lever controls and select from three hydraulic settings to tailor the lever control according to your preferences.

*Not available on L60H



See more, do more

Experience a clear view of the attachment and jobsite thanks to large expanses of glass, redesigned side mirrors, rear-view camera, as well as optional front camera and radar detect system. The machines also feature orange handrails and steps to stand out against the jobsite, and LED lights, available in various packages.



Bucket leveling function

Take your productivity to the next level with the bucket leveling function. The new function enhances operator performance by automatically returning the bucket from both dump and carry positions.

Not available on L60H



NO COMPROMISE ON COMFORT

Hard work has never felt so easy from the spacious of the Volvo cab, featuring your choice of comfortable operator seat, as well as ergonomic controls. Perform basic configurations using the Contronic key pad panel, and keep an eye on the operation with the information display.





L90H: tried and trusted

"As far as I am concerned Volvo has cornered the market on operator comfort. They do everything they can to make it comfortable for the operator working eight hours day or longer. The heated seats are a real bonus. And with the high tip bucket I can drive on the flat floor and still reach the metering bin."

Ron Snell, loader operator, Lycoming County Resource Management Services, Pennsylvania (USA)

OPERATOR COACHING

As machines become more advanced, and with smarter technology, the Operator Coaching app 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.





Operator Coaching app: put to the test

"I find it really useful. The system will tell me when to activate the Boom Suspension System, when to activate Lock-Up and flag up any changes I need to make to my operating style, like not riding the brakes and the throttle at the same time."

Operator from USA

Load Assist

Optimize your load cycles with Load Assist, powered by Volvo Co-Pilot – the revolutionary in-cab display. Gain access to a set of smart apps* and boost the efficiency of your operation.

*The On-Board Weighing app is not available on L60H, L70H and L90H.

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.



Integrated rear-view

Operators benefit from a full view of their surroundings when reversing, thanks to the rear-view camera and optional radar detect system which are now integrated into the Volvo Co-Pilot display.



Calculator

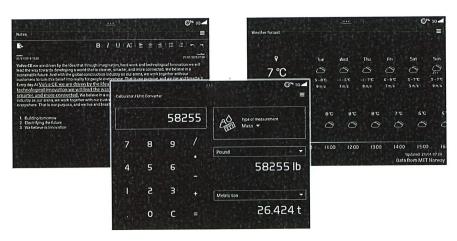
Complete basic calculation and use the Calculator app to quickly and easily convert six unit types (length, mass, angle, time, temperature and speed).

Notes

There's no need for a pad and pen with the Notes app. The digital notepad can be used to write and save notes while in the cab.

Weather

Stay on top of the weather with the easy-to-view Weather app, helping you stay informed of current and upcoming weather conditions.



Ultimate all-arounder

Designed to do more

- Optimized loading unit weight, heavy-duty counterweight for greater stability
- \bullet Higher tipping load: 1.7% for L60H, 1.6% for L70H, 3.4% for L90H
- L90H: increased lifting height by 75 mm (3 in)
- Electro-servo controls (L70H, L90H)
- Bucket leveling function
- Choice of three hydraulic response modes: active, normal, soft.



Volvo Services

- Load Assist, powered by Volvo Co-Pilot
- Operator training
- ActiveCare Direct
- Genuine Volvo Parts

KEEP IT MOVING

- 1000hr engine oil change interval
- Quick hydraulic oil fill thanks to new mounted nipple
- 50% larger hydraulic oil cooler
- Lifetime Frame and Structure Warranty
- D elayed engine shutdown
- Optional external axle cooling (L70H, L90H)



Safety as standard

- Anti-slip steps and strategically placed handrails
- Orange three-point seatbelt
- Redesigned side mirrors
- Rear-view camera
- Optional radar detect system
- Optional external seatbelt indicator light

UP TO 20% MORE EFFICIENT

- Optional lock-up converter with gear selection (L70H, L90H)
- \bullet Increased top speed of 50km/h (31 mph) with lock-up feature
- Rimpull control
- Smart Control
- Smooth Control
- Eco pedal

Keep your machine moving

The latest generation Volvo L60H, L70H and L90H wheel loaders extends their already legendary status by offering an upgraded portfolio of uptime-enhancing features. From simplified serviceability to proactive dealer support, you have access to everything you need to keep your machine up and moving.

Keep it cool

Count on Volvo to keep up. The improved hydraulic cooling capacity regulates the component temperature, for greater machine utilization when using attachments that are demanding on the hydraulics, and longer hydraulic component life. This, plus the external axle cooling option — ideal for tough applications — doubles the axle oil change intervals for higher uptime and lower maintenance costs.

Greater access

To keep uptime high, the H-Series wheel loaders are equipped with an engine cover that opens electronically, allowing ground-level access to the service points, including the radiator. For swift and easy cleaning, the new cooler installation now slides out. Safely fill the transmission and engine oil thanks to newly repositioned fill spouts, and get back to work without delay.



Delayed engine shutdown

Reduce the wear on your engine with the new delayed engine shutdown feature. The function shuts off the machine when the turbo has cooled down to the ideal temperature. Not only does the feature reduce component wear, it can also be scheduled by the operator to activate automatically for added convenience.



Here to support you

Maintain productivity with our range of Genuine Volvo Parts — all backed by Volvo warranty — with 24-hour parts delivery guaranteed. Maximize machine uptime and reduce repair costs with ActiveCare Direct. The intelligent service from Volvo provides around the clock machine monitoring, as well as customer reports, which suggests ways to optimize efficient machine use and help you take preventative maintenance actions.





DURABLE BY DESIGN

Built by Volvo, for Volvo, you can count on the proven design of the latest wheel loaders to meet the demands of tough job sites. Renowned for their reliability, the next-generation H-Series wheel loaders offer a Lifetime Frame and Structure Warranty, including the front frame, rear frame, articulation joint and loader arms.

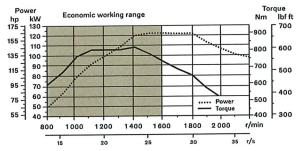


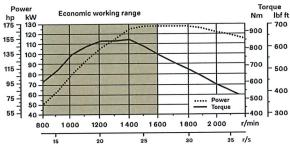
Volvo L60H, L70H, L90H in detail

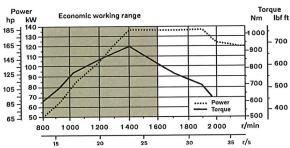
Engine

G-cylinder, 6 liters inline turbocharged diesel engine with an advanced fuel injection system with the common rail. Fuel is distributed under high pressure from a high-pressure accumulator, the rail. One belt driven high pressure pump deliver the fuel to the rail and then further on via high-pressure pipes to the electronically operated fuel injectors. Engine meets Tier 4f / Stage IV emission legislation.

| L60H | | |
|-------------------------|----------------------|--------------------------------|
| Engine | Volvo | D6J |
| Max. power at | r/min (r/s) | 1,500 - 1,800 (25 - 30) |
| SAE J1995 gross | kW (hp) | 122 (164) |
| ISO 9249, SAE J1349 net | kW (hp) | 122 (164) |
| Max. torque at | r/min (r/s) | 1,400 (23) |
| SAE J1995 gross | Nm (ft lbf) | 820 (605) |
| ISO 9249, SAE J1349 net | Nm (ft lbf) | 820 (605) |
| Economic working range | r/min (r/s) | 800 - 1,600 (13.3 - 26.7) |
| Displacement | l (in ³) | 5.7 (348) |
| L70H | | |
| Engine | Volvo | D6J |
| Max. power at | r/min (r/s) | 1,500 - 1,800 (23.3 - 28.3) |
| SAE J1995 gross | kW (hp) | 127 (170) |
| ISO 9249, SAE J1349 net | kW (hp) | 127 (170) |
| Max. torque at | r/min (r/s) | 1,400 (23.3) |
| SAE J1995 gross | Nm (ft lbf) | 853 (629) |
| ISO 9249, SAE J1349 net | Nm (ft lbf) | 853 (629) |
| Economic working range | r/min (r/s) | 800 - 1,600 (13.3 - 26.8) |
| Displacement | I (in ³) | 5.7 (348) |
| L90H | | |
| Engine | Volvo | D6J |
| Max. power at | r/min (r/s) | 1,400 - 1,900 (23.3 - 31.7) |
| SAE J1995 gross | kW (hp) | 137 (184) |
| ISO 9249, SAE J1349 net | kW (hp) | 137 (184) |
| Max. torque at | r/min (r/s) | 1,400 (23.3) |
| SAE J1995 gross | Nm (ft lbf) | 934 (689) |
| ISO 9249, SAE J1349 net | Nm (ft lbf) | 934 (689) |
| Economic working range | r/min (r/s) | 800 - 1,600 (13.3 - 26.7) |
| Displacement | 1 (in ³) | 5.7 (348) |
| | | |







Drivetrain

2nd gear

3rd gear

4th gear

Measured with tires

Front axle/rear axle Rear axle oscillation

Ground clearance

at oscillation

Torque converter: Single-stage

Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears with Pulse Width Modulation (PWM)

valve. Transmission: Volvo Automatic Power Shift (APS) gear shifting system with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO mode. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling.

Axies: Volvo fully floating axle shafts with planetary hub reductions and cast steel axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

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| differential lock on the front axle. | | |
|--------------------------------------|----------------|--|
| L60H | | |
| Transmission | Volvo | HTE 125C |
| Torque multiplication, stall ratio | | 2.5:1 |
| Maximum speed | | |
| 1st gear | km/h (mi/h) | Converter 7.5 (Converter 4.6) |
| 2nd gear | km/h (mi/h) | Converter 15 (Converter 9.3) |
| 3rd gear | km/h (mi/h) | Converter 28 (Converter 17.4) |
| 4th gear | km/h (mi/h) | Converter 46 (Converter 28.5) |
| 4th gear: Shown in speedomete | r and lim | |
| Measured with tires | | 20.5R25 |
| Front axle/rear axle | | AWB 15/AWB 15 |
| Rear axle oscillation | ±° | 13 |
| Ground clearance | mm (in) | 470 (18.5) |
| at oscillation | 0 | 13 |
| L70H | | |
| Transmission | Volvo | HTE 125C Non Lock-up / HTE 125 Lock-up |
| Torque multiplication, stall ratio | | 2.5:1 Non Lock-up / 2.59:1 Lock-up |
| Maximum speed | | |
| 1st gear | km/h (mi/h) | Converter 7.5 / Lock-up 7.5 (Converter 4.6 / Lock-up 4.6) |
| 2nd gear | km/h (mi/h) | Converter 15 / Lock-up 15 (Converter 9.3 / Lock-up 9.3) |
| 3rd gear | km/h (mi/h) | Converter 29 / Lock-up 30 (Converter 17.4 / Lock-up 18.0) |
| 4th gear | km/h (mi/h) | Converter 46 / Lock-up 50 (Converter 28.5 / Lock-up 31.1) |
| 4th gear: Shown in speedomete | r and lim | |
| Measured with tires | | 20.5R25 |
| Front axle/rear axle | | AWB 25/AWB 20 |
| Rear axle oscillation | ±° | 13 |
| Ground clearance | mm (in) | 470 (18.5) |
| at oscillation | 0 | 13 |
| L90H | | |
| Transmission | Volvo | HTE 125C Non Lock-up / HTE 125 Lock-up |
| Torque multiplication, stall ratio | | 2.5:1 Non Lock-up / 2.59:1 Lock-up |
| Maximum speed | | |
| 1st gear | km/h | Converter 6.5 / Lock-up 6.5 |

(mi/h)

km/h

(mi/h)

km/h

(mi/h) km/h

(mi/h)

mm

(in)

4th gear: Shown in speedometer and limited by ECU

(Converter 4.0 / Lock-up 4.0) Converter 14 / Lock-up 14 (Converter 8.6 / Lock-up 8.6)

Converter 26 / Lock-up 27

Converter 46 / Lock-up 50

20.5R25 AWB 25/AWB 20

470 (18.5)

(Converter 16.2 / Lock-up 16.8)

(Converter 28.5 / Lock-up 31.1)

Electrical system

Contronic electrical system with central warning light and buzzer 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, etc.

| | | L60H | L70H | L90H |
|--------------------------------|-----|----------|----------|----------|
| Batteries | V | 2 x 12 | 2 x 12 | 2 x 12 |
| Battery capacity | Ah | 2 x 110 | 2 x 110 | 2 x 110 |
| Cold cranking capacity, approx | A | 1,000 | 1,000 | 1,000 |
| Alternator rating | W/A | 3 135/80 | 3 135/80 | 3 135/80 |
| Starter motor output | kW | 5.5 | 5.5 | 5.5 |

Brake system

Service brake: Volvo dual-circuit system with outboard mounted, hydraulically operated, fully sealed and circulating oil cooled wet disc brakes. Four operator selectable transmission disengagement settings

while braking.

Parking brake: Dry disc brake mounted on the transmission output shaft. Applied by spring force, electro-hydraulically released with a switch on the instrument panel.

Secondary brake: Dual brake circuits with rechargeable accumulators. Standard: The brake system complies with the requirements of ISO 3450,

| | | L60H | L70H | L90H |
|---------------------------------|---------|-----------------------|--|--|
| Number of brake discs per wheel | | 1 | 1 | 1 |
| Accumulators | l (gal) | 3 x 0.5 (3 x 0.13) | 2 x 0.5+1 x 1.0 (2 x 0.13 + 1 x 0.26) | 2 x 0.5+1 x 1.0 (2 x 0.13 + 1 x 0.26) |
| Accumulators for parking brake | I (gal) | 1 x 0.5 (1 x 0.13) | 1 x 1.0 (1 x 0.26) | 1 x 1.0 (1 x 0.26) |

Volvo L60H, L70H, L90H in detail

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 manual speed settings. Defroster vents for all window areas. Operator's seat: Operator's seat with adjustable air 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

rails.
Standards: 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).

| oooo (operator res | ciumic Oyotomiji | | | | |
|--|--|--------------|----------|----------|--|
| | | L60H | L70H | L90H | |
| Emergency exit: Use | Emergency exit: Use emergency hammer to break window | | | | |
| Ventilation | m³/min (yd³/ min) | 9 (11.8) | 9 (11.8) | 9 (11.8) | |
| Heating capacity | kW | 16 | 16 | 16 | |
| Sound Level | | | | | |
| | | L60H | L70H | L90H | |
| Sound pressure leve | l in cab according | g to ISO 639 | 6 | | |
| L _{pA} | dB | 68 | 68 | 68 | |
| External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC | | | | | |
| Lwa | dB | 104 | 105 | 105 | |
| Lift Arm System | | | | | |
| Torque parallel linkage (TP-linkage) with high breakout torque and parallel | | | | | |

| Lift Arm System | | | | | | |
|--|---------|-----------|-----------|-----------|--|--|
| Torque parallel linkage (TP-linkage) with high breakout torque and parallel lift-arm action. | | | | | | |
| | | L60H | L70H | L90H | | |
| Lift cylinders | | 2 | 2 | 2 | | |
| Cylinder bore | mm (in) | 110 (4.3) | 110 (4.3) | 120 (4.7) | | |

| Litteyiniacis | | | | |
|---------------------|---------|------------|------------|------------|
| Cylinder bore | mm (in) | 110 (4.3) | 110 (4.3) | 120 (4.7) |
| Piston rod diameter | mm (in) | 70 (2.8) | 70 (2.8) | 70 (2.8) |
| Stroke | mm (in) | 665 (26.2) | 756 (29.8) | 744 (28.9) |
| Tilt cylinder | | 1 | 1 | 1 |
| Cylinder bore | mm (in) | 150 (5.9) | 160 (6.3) | 180 (7.1) |
| Piston rod diameter | mm (in) | 80 (3.1) | 90 (3.5) | 90 (3.5) |
| Stroke | mm (in) | 444 (175) | 432 (17) | 430 (16.9) |

Steering System

System supply: The steering system has priority feed from a load-sensing axial piston pump with variable displacement.
Steering cylinders: Two double-acting cylinders.

| | | L60H | L70H | L90H |
|----------------------|-----------------|------------|------------|------------|
| Steering cylinders | | 2 | 2 | 2 |
| Cylinder bore | mm (in) | 70 (2.8) | 70 (2.8) | 80 (3.1) |
| Rod diameter | mm (in) | 45 (1.8) | 45 (1.8) | 50 (2) |
| Stroke | mm (in) | 386 (15.2) | 386 (15.2) | 345 (13.6) |
| Working pressure | MPa (bar) | 21 (210) | 21 (210) | 21 (210) |
| Maximum flow | l/min (gal/min) | 60 (15.9) | 60 (15.9) | 60 (15.9) |
| Maximum articulation | ±° | 40 | 40 | 40 |

Hydraulic system

Closed center load sensing hydraulic system with non pressurised hydraulic tank and pilot operated control valves.

System supply: Variable displacement axial piston pump supply the hydraulic system.

Valves: The central valve distributes pressure and flow out to the cooling fan, steering, brake, pilot and hydraulic system. Steering system gets priority over others.

Lift function: The valve has four positions; raise, hold, lower and float position. Automatic boom kickout position can be set to any position between maximum reach and full lifting height.

Tilt function: The valve has three functions; rollback, hold and dump.

Tilt function: The valve has three functions; rollback, hold and dump. Automatic tilt out/tilt in 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 | | | | | | |
|---|------|------|--|--|--|--|
| | L60H | L70H | | | | |
| THE RESERVE TO SHARE THE PARTY OF THE PARTY | | | | | | |

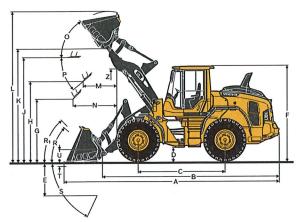
| | | L60H | L70H | L90H |
|---|--------------------|--------------|--------------|--------------|
| Working pressure maximum, pump 2 for steering-, brake-, pilot- an working hydraulic system | d MPa (bar) | 26 (260) | 26 (260) | 31 (310) |
| Flow | l/min (gal/min) | 145 (38.3) | 154 (40.7) | 171 (45.2) |
| 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 | n, MPa (bar) | 21 (210) | 21 (210) | 21 (210) |
| Flow | l/min (gal/min) | 33 (8.7) | 33 (8.7) | 33 (8.7) |
| 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 | 5.4 | 5.5 | 5.7 |
| Tilt | s | 1.9 | 2.1 | 2.3 |
| Lower, empty | S | 2.7 | 2.9 | 4 |
| Total cycle time | s | 10 | 10.5 | 12 |

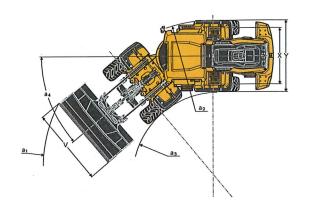
Service Refill

Service accessibility: Large, electrically operated easy-to-open hood covering whole engine compartment. Fluid filters and component breather air filters are located from ground level access and promote long service intervals. Machine contronics have possibility to monitor, log and analyze data to facilitate troubleshooting. A quick-fit adapter on the hydraulic tank provides faster hydraulic oil fill.

| | | L60H | L70H | L90H |
|-----------------------------------|---------|------------|------------|------------|
| Fuel tank | I (gal) | 222 (58.6) | 222 (58.6) | 222 (58.6) |
| DEF/AdBlue® tank | l (gal) | 20 (5.3) | 20 (5.3) | 20 (5.3) |
| Engine coolant | I (gal) | 30 (7.9) | 30 (7.9) | 30 (7.9) |
| Hydraulic oil tank | l (gal) | 90 (23.8) | 90 (23.8) | 90 (23.8) |
| Transmission oil (non lock-up) | I (gal) | 21 (5.5) | 21 (5.5) | 21 (5.5) |
| Transmission oil (lock-up) | l (gal) | 22 (5.8) | 22 (5.8) | 22 (5.8) |
| Engine oil | I (gal) | 20 (5.2) | 20 (5.2) | 20 (5.2) |
| Axle oil front | l (gal) | 25 (6.6) | 35 (9.2) | 35 (9.2) |
| Axle oil rear | I (gal) | 25 (6.6) | 27 (7.1) | 27 (7.1) |

Specifications





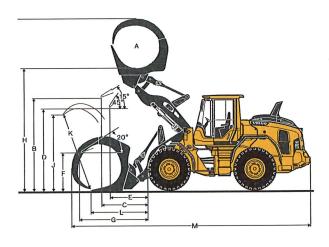
| | | | L6 | ОН | L70 | ОН | L9 | ОН | L6 | Н | L70 | ОН | L9 | ОН |
|------|----|-------|-------|-------|---------|--------|-------|--------|-------|-------|-------|-------|-------|-------------------------|
| | | | | | Standar | d boom | | | | | Long | boom | | |
| В | mm | ft in | 6,010 | 19'9" | 6,080 | 19'11" | 6,170 | 20'3" | 6,520 | 21'5" | 6,560 | 21'6" | 6,600 | 21'8" |
| С | mm | ft in | 3,000 | 9'10" | 3,000 | 9'10" | 3,050 | 10'0" | 3,000 | 9'10" | 3,000 | 9'10" | 3,050 | 10'0" |
| D | mm | ft in | 440 | 1'5" | 450 | 1'6" | 450 | 1'6" | 430 | 1'5" | 450 | 1'6" | 440 | 1'5" |
| F | mm | ft in | 3,270 | 10'9" | 3,280 | 10'9" | 3,280 | 10'9" | 3,270 | 10'9" | 3,280 | 10'9" | 3,280 | 10'9" |
| G | mm | ft in | 2,133 | 7'0" | 2,134 | 7'0" | 2,132 | 7'0" | 2,134 | 7'0" | 2,134 | 7'0" | 2,132 | 7'0" |
| J | mm | ft in | 3,550 | 11'8" | 3,580 | 11'9" | 3,730 | 12'3" | 4,080 | 13'5" | 4,050 | 13'3" | 4,140 | 13'7" |
| K | mm | ft in | 3,870 | 12'8" | 3,870 | 12'8" | 4,040 | 13'3" | 4,380 | 14'4" | 4,350 | 14'3" | 4,460 | 14'8" |
| 0 | 0 | | 5 | 56 | | 6 | 5 | 7 | 5 | 6 | . 5 | 2 | 5 | 8 |
| Pmax | 0 | | 4 | 45 | | 6 | 4 | 5 | 4 | 2 | 4 | 5 | 4 | 4 |
| R | 0 | | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 5 | 4 | 4 | | -7 |
| R1* | 0 | | 4 | 6 | 4 | 8 | 4 | 9 | 5 | 0 | 4 | 9 | 5 | the same of the same of |
| S | 0 | | 7 | 9 | 6 | 8 | 6 | | 7 | | 7 | 3 | | 5 |
| T | mm | ft in | 123 | 0'5" | 106 | 0'4" | 112 | 0'4" | 150 | 0'6" | 112 | 0'4" | 123 | 0'5" |
| U | mm | ft in | 410 | 1'4" | 450 | 1'6" | 480 | 1'7" | 590 | 1'11" | 500 | 1'8" | 570 | 1'10" |
| X | mm | ft in | 1,900 | 6'3" | 1,930 | 6'4" | 1,960 | 6'5" | 1,900 | 6'3" | 1,930 | 6'4" | 1,960 | 6'5" |
| Υ | mm | ft in | 2,430 | 7'12" | 2,460 | 8'1" | 2,490 | 8'2" | 2,430 | 7'12" | 2,460 | 8'1" | 2,490 | 8'2" |
| Z | mm | ft in | 3,210 | 10'6" | 3,160 | 10'4" | 3,460 | 11'4" | 3,590 | 11'9" | 3,500 | 11'6" | 3,910 | 12'10 |
| a2 | mm | ft in | 5,340 | 17'6" | 5,350 | 17'7" | 5,430 | 17'10" | 5,340 | 17'6" | 5,350 | 17'7" | 5,430 | 17'10 |
| a3 | mm | ft in | 2,900 | 9'6" | 2,890 | 9'6" | 2,940 | 9'8" | 2,900 | 9'6" | 2,890 | 9'6" | 2,940 | 9'8" |
| a4 | ±° | | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 |

^{*} Carry position SAE

Calculated with additional protective guarding

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

| | | | L6 | НО | L70 | ОН | L9 | ОН |
|--------------------------------------|---------|--------|-------------|-----------|--------|--------|--------|--------|
| SAE-Load | kg | lb | 3,450 | 7,606 | 3,990 | 8,796 | 4,600 | 10,141 |
| Operating weight without load* | kg | lb | 12,883 | 28,402 | 14,585 | 32,154 | 16,645 | 36,696 |
| Grapple sales | code | | WLA | 32194 | WLA | 30153 | WLAS | 80832 |
| Α | m² | yd2 | 1.3 | 1.6 | 1.5 | 1.8 | 2.4 | 2.9 |
| В | mm | ftin | 3,412 | 11'2" | 3,380 | 11'1" | 3,487 | 11'5" |
| С | mm | | 1,483 | 4'10" | 1,594 | 5'3" | 1,703 | 5'7" |
| D | mm | ftin | 2,929 | 9'7" | 2,870 | 9'5" | 2,865 | 9'5" |
| E | mm | ft in | 1,175 | 3'10" | 1,265 | 4'2" | 1,319 | 4'4" |
| F | mm | ftin | 1,532 | 5'0" | 1,502 | 4'11" | 1,441 | 4'9" |
| G | mm | ft in | 2,350 | 7'9" | 2,442 | 8'0" | 2,740 | 8'12" |
| Н | mm | ftin | 4,333 | 14'3" | 4,378 | 14'4" | 4,613 | 15'2" |
| I | mm | ft in | 5,878 | 19'3" | 6,027 | 19'9" | 6,664 | 21'10" |
| J | mm | ftin | 1,997 | 6'7" | 2,141 | 7'0" | 2,786 | 9'2" |
| K | mm | ftin | 2,080 | 6'10" | 2,365 | 7'9" | 2,990 | 9'10" |
| L | mm | ftin | 1,709 | 5'7" | 1,800 | 5'11" | 2,131 | 6'12" |
| М | mm | ft in | 7,861 | 25'9" | 7,996 | 26'3" | 8,469 | 27'9" |
| * Calculated v | vith ad | dition | al protecti | ve guardi | ng | | | |



Specifications

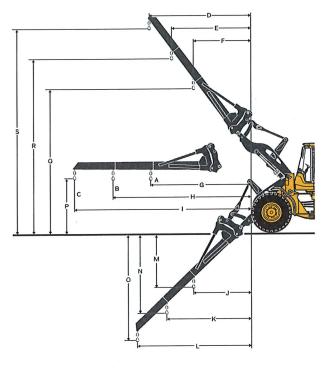
| 25 L3 | | | | | | | |
|---------|--|---|--|---|---|-------|---|
| | | L6 | он | L70 | ОН | L9 | ОН |
| lling a | arm | 920 | 007 | 920 | 007 | 920 | 800 |
| kg | lb | 1,800 | 3,968 | 2,150 | 4,740 | 2,760 | 6,085 |
| kg | lb | 1,400 | 3,086 | 1,710 | 3,770 | 2,130 | 4,696 |
| kg | lb | 1,150 | 2,535 | 1,400 | 3,086 | 1,740 | 3,836 |
| kg | lb | 3,238 | 7,139 | 3,583 | 7,899 | 4,289 | 9,456 |
| kg | lb | 2,910 | 6,415 | 3,222 | 7,103 | 3,834 | 8,453 |
| kg | lb | 2,814 | 6,204 | 3,116 | 6,870 | 3,700 | 8,157 |
| mm | ft in | 2,592 | 8'6" | 2,716 | 8'11" | 2,486 | 8'2" |
| mm | ft in | 2,002 | 6'7" | 2,106 | 6'11" | 1,894 | 6'3" |
| mm | ft in | 1,465 | 4'10" | 1,549 | 5'1" | 1,301 | 4'3" |
| mm | ft in | 3,270 | 10'9" | 3,323 | 10'11" | 3,253 | 10'8" |
| mm | ft in | 4,305 | 14'1" | 4,358 | 14'4" | 4,387 | 14'5" |
| mm | ft in | 5,439 | 17'10" | 5,492 | 18'0" | 5,520 | 18'1" |
| mm | ft in | 905 | 2'12" | 1,269 | 4'2" | 1,339 | 4'5" |
| mm | ft in | 1,227 | 4'0" | 1,744 | 5'9" | 1,889 | 6'2" |
| mm | ft in | 1,580 | 5'2" | 2,266 | 7'5" | 2,439 | 8'0" |
| mm | ft in | 2,258 | 7'5" | 2,176 | 7'2" | 2,051 | 6'9" |
| mm | ft in | 3,241 | 10'8" | 3,095 | 10'2" | 3,043 | 9'12" |
| mm | ft in | 4,319 | 14'2" | 4,102 | 13'5" | 4,034 | 13'3" |
| mm | ft in | 1,512 | 5'0" | 1,523 | 5'0" | 1,520 | 5'0" |
| mm | ft in | 5,286 | 17'4" | 5,302 | 17'5" | 5,403 | 17'9" |
| mm | ft in | 6,171 | 20'3" | 6,174 | 20'3" | 6,370 | 20'11" |
| mm | ft in | 7,139 | 23'5" | 7,129 | 23'5" | 7,336 | 24'1" |
| | kg kg kg kg mm | kg lb kg lb kg lb kg lb kg lb mm ft in | Residence Resi | L60H Hing arm 92007 kg lb 1,800 3,968 kg lb 1,150 2,535 kg lb 2,910 6,415 kg lb 2,814 6,204 mm ft in 2,002 6'7" mm ft in 3,270 10'9" mm ft in 4,305 14'1" mm ft in 1,227 4'0" mm ft in 1,227 4'0" mm ft in 1,227 4'0" mm ft in 3,241 10'8" mm ft in 3,241 10'8" mm ft in 3,241 10'8" mm ft in 4,319 14'2" mm ft in 1,512 5'0" mm ft in 1,512 5'0" mm ft in 1,512 5'0" mm ft in 5,286 17'4" mm ft in 6,171 20'3" | L60H L70 dling arm 92007 920 kg lb 1,800 3,968 2,150 kg lb 1,400 3,086 1,710 kg lb 1,150 2,535 1,400 kg lb 2,910 6,415 3,222 kg lb 2,814 6,204 3,116 mm ft in 2,592 8'6" 2,716 mm ft in 2,002 6'7" 2,106 mm ft in 3,270 10'9" 3,323 mm ft in 3,270 10'9" 3,323 mm ft in 5,439 17'10" 5,492 mm ft in 1,250 4'0" 1,744 mm ft in 1,250 5'2" 2,266 mm ft in 3,241 10'8" 3,095 mm ft in 3,241 10'8" 3,095 mm ft in | | L60 H L70 H L9 dling arm 92007 92007 92007 92007 92007 92007 92007 92007 92007 92007 92007 92007 9200 kg lb 1,800 3,968 2,150 4,740 2,760 kg 1,740 kg lb 1,150 2,535 1,400 3,086 1,740 kg lb 2,910 6,415 3,222 7,103 3,834 kg lb 2,910 6,611 1,248 mm 1,1 2,486 mm ft in 2,592 8'6" 2,716 8'11" 2,486 mm ft in 3,221 10'9" 3,32 |

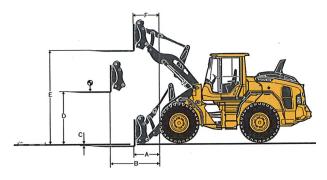
weight kg lb 11,885 26,202 13,451 29,654 14,833 32,701 without load

^{**}Calculated with additional protective guarding

| Tires: 20.5R2 | 25 L3 | | | | | | | |
|-------------------------------------|--------|------------------------|-------|--------|--------|--------|--------|--------|
| | | | L6 | ОН | L70 | ЭН | L9 | он |
| Fork frame sa | les co | ode | 837 | 768 | 837 | 768 | 837 | 770 |
| Fork tines sal (R/L) | es co | de | 80042 | 80043 | 80042 | /80044 | 80106 | /80107 |
| Static tipping load, straight | kg | lb | 6,930 | 15,278 | 7,576 | 16,702 | 8,904 | 19,630 |
| 35deg. Turn | kg | lb | 6,230 | 13,735 | 6,809 | 15,011 | 7,947 | 17,520 |
| at full turn | kg | lb | 6,024 | 13,281 | 6,584 | 14,515 | 7,664 | 16,896 |
| at load center distance* | mm | ft in | 600 | 2'0" | 600 | 2'0" | 600 | 2'0" |
| Α | mm | ft in | 798 | 2'7" | 841 | 2'9" | 932 | 3'1" |
| В | mm | ft in | 1,567 | 5'2" | 1,616 | 5'4" | 1,679 | 5'6" |
| C | mm | ft in | -38 | -1'11" | -52 | -1'10" | -4 | -1'12" |
| D | mm | ft in | 1,831 | 6'0" | 1,859 | 6'1" | 1,800 | 5'11" |
| E | mm | ft in | 3,713 | 12'2" | 3,736 | 12'3" | 3,841 | 12'7" |
| F | mm | ft in | 700 | 2'4" | 767 | 2'6" | 641 | 2'1" |
| Operating weight without load | kg | ft in 700 lb 11,965 | | 26,378 | 13,531 | 29,831 | 14,928 | 32,911 |

^{*} Firm and level ground





^{*} Op. load at full turn + tipping position Tipping loads calculated for max. arm length

^{**}Calculated with additional protective guarding

Volvo L60H specifications

| | | | | | | | G | enerai | purpo | se | | | | | Gra | ding | | Light n | nateria | ıl | LongB | loom** |
|-------------------------------|----|-------|--------------|--|--------|-------------------|--------------|---------------------------|--------------|-------------------------|--------------|--------------|--------------|---------------------|------------|-------------------------|--------|---------------------|---------|---------------------|-------------------------|----------------|
| L60H* | | | Ä | | 8 E | | Ê | | B E | | £. | | Ø. | | G4 | | 86 | | 0k | | | |
| MICH 20.5R25 XHA2 L3 | 3 | | | | WLA | 36423 | | 86401 | | 36405 m ³ | WLA: | | | 86411 m³ | | 92476 m ³ | WLA | 92564 | WLAS | 92565 | WLA | |
| Volume, heaped ISO/SAE n | | | (2.5 HD 9 | m ³ yd ³) STE H DE | (2.6 | m³ yd³) H T | (2.7 HD 9 | m³ yd³) STE H OE | (3.0 HD 5 | yd³) STE H DE | (2.7 HD S | yd³) TE P | (3.0 HD 9 | yd³) STE P DE | (2.2 GR | yd³) | (4.1 y | m³ d³) LM 30E | (6.5 | m³ yd³) I BOE | 2.1 (2.7 yo STE F | |
| Volume, heaped ISO/SAE | m3 | yd3 | 1.9 | 2.5 | 2.0 | 2.6 | 2.1 | 2.7 | 2.3 | 3,0 | 2.1 | 2.7 | 2.3 | 3.0 | 1.7 | 2.2 | 3,1 | 4.1 | 5.0 | 6.5 | 2.1 | 2.7 |
| Volume at 110% fill factor | m3 | yd3 | 2.0 | 2.7 | 2.2 | 2.9 | 2.3 | 3.0 | 2.5 | 3.3 | 2.3 | 3.0 | 2.5 | 3.3 | 1.9 | 2.4 | 3.4 | 4.5 | 5.5 | 7.2 | 2.3 | 3.0 |
| Static tipping load, straight | kg | lb | 8,940 | 19,710 | 9,028 | 19,910 | 8,831 | 19,470 | 8,770 | 19,330 | 9,310 | 20,520 | 9,230 | 20,340 | 7,740 | 17,060 | 8,450 | 18,640 | 8,450 | 18,640 | -1,640 | -3,600 |
| at 35° turn | kg | lb | 7,996 | 17,630 | 8,079 | 17,810 | 7,887 | 17,390 | 7,830 | 17,260 | 8,340 | 18,400 | 8,270 | 18,230 | 6,920 | 15,260 | 7,540 | 16,630 | 7,510 | 16,570 | -1,500 | -3,320 |
| at full turn | kg | lb | 7,718 | 17,020 | 7,800 | 17,200 | 7,609 | 16,780 | 7,550 | 16,650 | 8,060 | 17,770 | 7,990 | 17,610 | 6,680 | 14,730 | 7,280 | 16,040 | 7,240 | 15,960 | -1,470 | -3,230 |
| Breakout force | kN | lbf | 81.8 | 18,400 | 82.8 | 18,610 | 80.4 | 18,090 | 75.0 | 16,870 | 84.8 | 19,060 | 80.9 | 18,190 | 60.1 | 13,500 | 61.7 | 13,870 | 53.7 | 12,080 | 8.8 | 1,980 |
| A | mm | ft in | 7,316 | 24' | 7,520 | 24' 8" | 7,338 | 24'1" | 7,430 | 24' 5" | 7,270 | 23' 10" | 7,330 | 24' 1" | 7,650 | 25'1" | 7,680 | 25' 2" | 7,900 | 25' 11" | 520 | 1'9" |
| E | mm | ft in | 1,116 | 3, 8, | 1,302 | 4' 3" | 1,136 | 3, 8, | 1,220 | 4' | 1,070 | 3'6" | 1,130 | 3, 8, | 1,400 | 4'7" | 1,470 | 4' 10" | 1,700 | 5' 7" | 40 | 2" |
| Н | mm | ft in | 2,836 | 9' 4" | 2,705 | 8' 10° | 2,811 | 9, 3, | 2,760 | 9'1" | 2,850 | 9'4" | 2,810 | 9'3" | 2,520 | 8,3, | 2,580 | 8'6" | 2,440 | 8,0, | 530 | 1'9" |
| L | mm | ft in | 5,032 | 16' 6" | 5,084 | 16' 8° | 5,069 | 16'8" | 5,180 | 17' 0" | 5,060 | 16' 7" | 5,120 | 16' 10" | 4,530 | 14' 10" | 5,290 | 17' 4" | 5,490 | 18' 0" | 510 | 1'8" |
| M | mm | ft in | 1,054 | 3'5" | 1,192 | 3' 11" | 1,056 | 3, 6, | 1,130 | 3'9" | 1,000 | 3,3, | 1,040 | 3'5" | 1,130 | 3,8, | 1,320 | 4'4" | 1,500 | 4' 11" | 10 | O ₁ |
| N | mm | ft in | 1,578 | 5' 2" | 1,632 | 5' 4" | 1,584 | 5' 2" | 1,610 | 5' 3" | 1,560 | 5'2" | 1,580 | 5' 2" | 1,490 | 4' 11" | 1,630 | 5' 4" | 1,670 | 5' 6" | 450 | 1'5" |
| V | mm | in | 2,500 | 98" | 2,500 | 98" | 2,650 | 104° | 2,500 | 98" | 2,500 | 98" | 2,500 | 98" | 2,500 | 98" | 2,550 | 100" | 2,650 | 104" | 2,500 | 98 |
| a1 clearance circle | mm | ft in | 11,569 | 37' 11" | 11,665 | 38, 3, | 11,719 | 38'5" | 11,620 | 38' 2" | 11,580 | 38' | 11,600 | 38'1" | 11,970 | 39'3" | 11,840 | 38' 10" | 12,060 | 39'7" | 430 | 1' 5" |
| Operating weight | kg | lb | 12,299 | 27,120 | 12,270 | 27,060 | 12,388 | 27,320 | 12,400 | 27,350 | 12,070 | 26,620 | 12,110 | 26,700 | 12,250 | 27,000 | 12,440 | 27,420 | 12,720 | 28,060 | 340 | 750 |

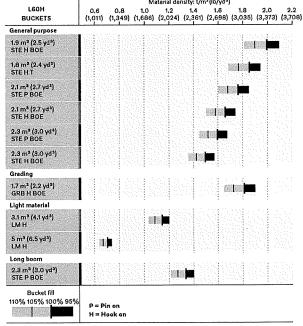
^{*}Calculated with additional protective guarding. (WL86009,WL86010)

Note: This only applies to genuine Volvo attachments.

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 1.5 t/m3 (2,530 lb/yd3). Result: The 2.1 m3 (2.8 yd3) bucket carries 2.2 m3 (2.9 yd3). For optimum stability always consult the bucket selection chart.

| Material | | Materia | l density | | /SAE volume | Actual | volume |
|-----------------|---------|----------------------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|
| | fill, % | t/m³ | lb/yd³ | m³ | yd ³ | m³ | yd ³ |
| Earth/Clay | ~ 110 | ~ 1.40 | ~ 2,610 ~ 2,360 ~ 2,190 | 1.9 2.1 2.3 | 2.5 2.8 3.0 | 2.1 2.3 2.5 | 2.8 3.0 3.3 |
| Sand/ Gravel | ~ 105 | ~ 1.65 ~ 1.50 ~ 1.35 | ~ 2,780 ~ 2,530 ~ 2,280 | 1.9 2.1 2.3 | 2.5 2.8 3.0 | 2.0 2.2 2.1 | 2.6 2.9 2.8 |
| Aggregate | ~ 100 | ~ 1.75 ~ 1.55 ~ 1.55 | ~ 2,950 ~ 2,610 ~ 2,610 | 1.9 2.1 2.3 | 2.5 2.8 3.0 | 1.9 2.1 2.3 | 2.5 2.8 3.0 |
| Rock | ≤100 | ~ 1.70 | ~ 2,870 | 1.7 | 2.2 | 1.7 | 2.2 |



How to read bucket fill factor

| | | - 1 | | | Standa | d boom | | | Long | boom |
|-------------------------|----|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Tires 20.5 R25 L3 | | | 17.5 R | 25 L2 | 20.5 F | R25 L2 | 600/65 | R25 L3 | 600/65 | R25 L3 |
| Width over tires | mm | in | -130 | -5.1 | +8 | +0.3 | +96 | +3.8 | +96 | +3.8 |
| Ground clearance | mm | in | -68 | -2.7 | -10 | -0.4 | -30 | -1.2 | -22 | -0.9 |
| Tipping load, full turn | kg | lb | -337 | -743 | -166 | -366 | -72 | -159 | 0 | 0 |
| Operating weight | kg | lb | -544 | -1,199 | -112 | -247 | +8 | +18 | +3 | +7 |

^{**}Calculated with logging counterweight.

Volvo L70H specifications

| | | | | | | | G | eneral | purpo | se | | | | | Grad | ling | 1 | lght n | nateria | 1 | LongBo | oom** |
|-------------------------------|----|-------|-------------|---------|-------------|------------|-------------|---------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|-------------------|-------------------|-------------|--|-------------------|------------|---------------------|--------------------|
| L70H* | | | P E | | PÄ | | PÄ | | PÅ | | PÅ | | | Ø | BJ. | | 86 | | 86 | | | |
| | | | 2.3 (3.0 | m³ | 2.2 (2.9 | m³ yd³) | 2.0 (2.7 | yd³) STE H | 2.2 (2.8 HD S | m³ yd³) STE H | 2.3 (3.0 HD S | m³ yd³) TE H | 2.2 (2.8 HD S | m³ yd³) STE P | 2.2 (2.9 GR | m³ yd³) B H | 3.4 (4.4 | m ³ yd ³) 1 H | 6.4 (8.4 LN | m³ yd³) | 2.2 (2.9 HD S | m³ yd³) TE P |
| Volume, heaped ISO/SAE | m3 | yd3 | 2.4 | 3.1 | 2.2 | 2.9 | 2.1 | 2.7 | 2.3 | 3.0 | 2.4 | 3.1 | 2.3 | 3.0 | 2.2 | 2.9 | 3.4 | 4.4 | 6.4 | 8.4 | 2.3 | 3.0 |
| Volume at 110% fill factor | m3 | yd3 | 2.6 | 3.5 | 2.4 | 3.2 | 2.3 | 3.0 | 2.5 | 3.3 | 2.6 | 3.5 | 2.5 | 3.3 | 2.4 | 3.2 | 3.7 | 4.9 | 7.0 | 9.2 | 2.5 | 3.3 |
| Static tipping load, straight | kg | lb | 9,740 | 21,480 | 9,840 | 21,710 | 9,770 | 21,550 | 9,710 | 21,410 | 9,670 | 21,320 | 10,310 | 22,730 | 7,920 | 17,470 | 9,253 | 20,400 | 8,830 | 19,460 | -1,550 | -3,400 |
| at 35° turn | kg | lb | 8,710 | 19,200 | 8,810 | 19,420 | 8,740 | 19,270 | 8,680 | 19,130 | 8,640 | 19,050 | 9,240 | 20,370 | 7,040 | 15,530 | 8,246 | 18,180 | 7,790 | 17,180 | -1,430 | -3,140 |
| at full turn | kg | lb | 8,400 | 18,530 | 8,500 | 18,740 | 8,430 | 18,590 | 8,370 | 18,460 | 8,340 | 18,380 | 8,920 | 19,680 | 6,780 | 14,950 | 7,949 | 17,530 | 7,490 | 16,510 | -1,390 | -3,070 |
| Breakout force | kN | lbf | 87.8 | 19,740 | 91.3 | 20,520 | 92.8 | 20,860 | 88.5 | 20,110 | 87.6 | 19,690 | 98.7 | 22,200 | 62.7 | 14,090 | 71.7 | 16,130 | 53.9 | 12,110 | -1.8 | -,410 |
| A | mm | ft in | 7,510 | 24'8" | 7,700 | 25'3" | 7,440 | 24'5" | 7,490 | 24'7" | 7,520 | 24'8" | 7,370 | 24'2" | 7,950 | 26' 1" | 7,776 | 25' 6" | 8,330 | 27' 4" | 470 | 1'7" |
| E | mm | ft in | 1,210 | 4'0" | 1,360 | 4'6" | 1,140 | 3'9" | 1,190 | 3' 11" | 1,210 | 4'0" | 1,080 | 3, 6, | 1,670 | 5'6" | 1,466 | 4' 10" | 1,960 | 6'5" | 20 | 0'1" |
| Н | mm | ft in | 2,740 | 9'0" | 2,620 | 8'7" | 2,790 | 9'2" | 2,760 | 9,0" | 2,740 | 9, 0 _n | 2,830 | 9'3" | 2,360 | 7'9" | 2,531 | 8' 4" | 2,160 | 7'1" | 490 | 1'8" |
| L | mm | ft in | 5,170 | 16' 11" | 5,220 | 17' 1" | 5,110 | 16' 9" | 5,170 | 17' 0" | 5,200 | 17' 1" | 5,100 | 16' 9" | 4,720 | 15' 6" | 5,455 | 17' 11" | 5,790 | 19' 0" | 470 | 1'6" |
| M | mm | ft in | 1,160 | 3'10" | 1,270 | 4'2" | 1,110 | 3'8" | 1,140 | 3, 9, | 1,160 | 3' 10" | 1,060 | 3'6" | 1,350 | 4'5" | 1,339 | 4'5" | 1,720 | 5'8" | 20 | 0'1" |
| N | mm | ft in | 1,660 | 5' 5" | 1,690 | 5'7" | 1,640 | 5' 4" | 1,650 | 5' 5" | 1,660 | 5'5" | 1,610 | 5'3" | 1,570 | 5' 2" | 1,680 | 5' 6" | 1,720 | 5'8" | 390 | 1' 4" |
| V | mm | in | 2,650 | 104" | 2,500 | 98" | 2,650 | 104" | 2,650 | and the second | 2,650 | 104" | 2,650 | 104" | 2,650 | 104" | 2,650 | 104" | 2,750 | 108" | 2,650 | 104" |
| a1 clearance circle | mm | ft in | 11,800 | | 11,750 | | 11,760 | | | | 11,800 | _ | 11,740 | | 12,320 | | 11,980 | | | | 370 | 1'3" |
| Operating weight | kg | lb | 13,950 | 30,760 | 13,920 | 30,700 | 13,950 | 30,770 | 13,990 | 30,840 | 14,000 | 30,880 | 13,720 | 30,260 | 14,240 | 31,400 | 14,193 | 31,290 | 14,730 | 32,490 | 510 | 1120 |



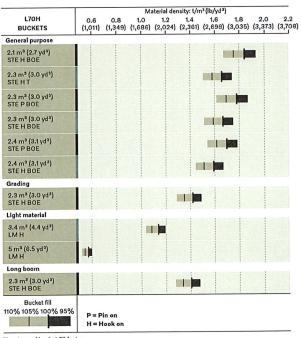
^{*}Calculated with additional protective guarding. (WL86009,WL86010)

Note: This only applies to genuine Volvo attachments.

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 1.55 t/m3 (2,610 lb/yd3). Result: The 2.6 m3 (3.4 yd3) bucket carries 2.7m3 (3.5 yd3). For optimum stability always consult the bucket selection chart.

| Material | | Materia | l density | ISO/ bucket | | Actual | volume |
|-----------------|---------|----------------------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|
| | fill, % | t/m³ | lb/yd ³ | m³ | yd ³ | m³ | yd ³ |
| Earth/Clay | ~ 110 | | ~ 2,610 ~ 2,440 ~ 2,360 | 2.5 2.6 2.8 | 3.3 3.4 3.7 | 2.7 2.9 3.1 | 3.5 3.8 4.0 |
| Sand/ Gravel | ~ 105 | | ~ 2,780 ~ 2,610 ~ 2,530 | 2.5 2.6 2.8 | 3.3 3.4 3.7 | 2.6 2.7 2.9 | 3.4 3.5 3.7 |
| Aggregate | ~ 100 | ~ 1.75 ~ 1.65 ~ 1.60 | | | 3.3 3.4 | 2.5 2.6 2.8 | 3.3 3.4 3.7 |
| Rock | ≤100 | ~ 1.80 | ~ 3,030 | 2.2 | 2.9 | 2.2 | 2.9 |



How to read bucket fill factor

| • | | | | Standar | d boom | | Long | boom |
|-------------------------|----|-------|--------|---------|--------|--------|--------|--------|
| ires 20.5 R25 L3 | | | 20.5 F | R25 L2 | 600/65 | R25 L3 | 600/65 | R25 L3 |
| Width over tires | mm | ft in | +8 | 0.3 | +96 | 3.8 | +96 | 3.8 |
| Ground clearance | mm | ft in | -8 | -0.3 | -32 | -1.3 | -24 | -0.9 |
| Tipping load, full turn | kg | lb | -62 | -137 | -39 | -86 | +9 | +20 |
| Operating weight | kg | lb | -113 | -249 | +7 | +15 | +4 | +9 |

^{**}Calculated with logging counterweight.

Volvo L90H specifications

| | | | | | | | G | eneral | purpo | se | | | | | Gra | ding | | Light n | nateria | I | LongB | oom** |
|-------------------------------|----|-------|---------------------|--------------------|-------------|---------|---------------------|---------|---------------------|--|-----------------------------------|--------------------|-------------|---------|-------------------|------------|-------------|-----------------------------|-------------|---|---------------------|--------------------|
| L90H* | | | B E | | Î | | E E | | P E | | £. | 7 | PÉ | | G.L | A | 8E | | 8E | | | |
| MICH 20.5R25 XHA2 L3 | | | 2.3 (3.0 HD 5 | m ³ | 2.6 (3.4 | m³ | 2.7 (3.5 HD 5 | m³ | 2.8 (3.7 HD 9 | m ³ yd ³) STE H | WLAS 2.8 (3.7 HD S BC | m³ yd³) TE P | 2.8 (3.7 | m³ | 2.8 (3.7 GR | m³ yd³) | 4.1 (5.4 | 92687 m³ yd³) // H | 7.0 | m³ yd³) | 2.7 (3.5 HD S | m³ yd³) |
| Volume, heaped ISO/SAE | m3 | yd3 | 2.3 | 3.0 | 2.6 | 3.4 | 2.7 | 3,5 | 2.8 | 3.7 | 2.8 | 3.7 | 2.8 | 3.7 | 2.8 | 3.7 | 4.1 | 5.4 | 7.0 | 9.2 | 2.7 | 3.5 |
| Volume at 110% fill factor | m3 | yd3 | 2.5 | 3.3 | 2.9 | 3.7 | 3.0 | 3.9 | 3.1 | 4.0 | 3.1 | 4.0 | 3.1 | 4.0 | 3.1 | 4.0 | 4,5 | 5.9 | 7.7 | 10.1 | 3.0 | 3.9 |
| Static tipping load, straight | kg | lb | 11,520 | 25,390 | 11,610 | 25,610 | 11,970 | 26,390 | 11,320 | 24,960 | 11,930 | 26,310 | 11,430 | 25,200 | MANUAL PROPERTY. | | | 23,840 | | | 0010000100500 | -2,440 |
| at 35° turn | kg | lb | 10,220 | 22,540 | 10,310 | 22,740 | 10,640 | 23,450 | 10,030 | 22,120 | 10,600 | 23,380 | 10,140 | 22,360 | 8,170 | 18,020 | 9,550 | 21,060 | 9,250 | 20,390 | supercontrations | STREET, SECTION OF |
| at full turn | kg | lb | 9,840 | 21,700 | 9,930 | 21,890 | 10,240 | 22,590 | 9,650 | 21,290 | 10,210 | 22,510 | 9,760 | 21,530 | 7,860 | 17,330 | 9,180 | 20,230 | TEACHER NO. | 550000000000000000000000000000000000000 | -1,000 | -2,220 |
| Breakout force | kN | lbf | 138.8 | 31,030 | 135.9 | 30,560 | 140.1 | 31,510 | 126.4 | 28,430 | 137.6 | 30,940 | 126.4 | 28,430 | 92,2 | 20,730 | 100.6 | 22,610 | 87.0 | 19,560 | 1.8 | ,410 |
| Α | mm | ft in | 7,560 | 24' 10" | 7,850 | 25'9" | 7,560 | 24' 10" | 7,690 | 25' 3" | 7,580 | 24' 11" | 7,690 | 25'3" | 8,170 | 26' 10" | 8,040 | 26' 5" | 8,350 | 27' 5" | 410 | 1'4" |
| E | mm | ft in | 1,170 | 3'10" | 1,410 | 4'8" | 1,160 | 3'9" | 1,280 | 4'2" | 1,180 | 31 10° | 1,280 | 4' 2" | 1,760 | 5'9" | 1,590 | 5'3" | 1,860 | 6' 1" | -10 | 0" |
| Н | mm | ft in | 2,910 | 9'7" | 2,730 | 8' 11" | 2,920 | 9'7" | 2,830 | 9' 4" | 2,910 | 9'7" | 2,830 | 9'4" | 2,400 | 7' 11" | 2,610 | 8'7" | 2,410 | 7'11" | 420 | 1'4" |
| L | mm | ft in | 5,310 | 17' 5" | 5,420 | 17' 10" | 5,360 | 17' 7" | 5,450 | 17' 11" | 5,390 | 17' 8" | 5,420 | 17' 10" | 4,900 | 16' 1" | 5,640 | 18' 6" | 5,840 | 19' 2" | 420 | 1'4" |
| M | mm | ft in | ,970 | 3' 2" | 1,170 | 3'10" | ,970 | 3' 2" | 1,070 | 3'6" | ,990 | 3'3" | 1,070 | 3' 6" | 1,200 | 3'11" | 1,350 | 4'5" | 1,550 | 5' 1" | -70 | -3" |
| N | mm | ft in | 1,660 | 5' 5" | 1,730 | 5'8" | 1,650 | 5' 5" | 1,700 | 5'7" | 1,660 | 5'5" | 1,700 | 5' 7" | 1,520 | 5' 0" | 1,710 | 5'7" | 1,700 | 5' 7" | 360 | 1' 2" |
| ٧ | mm | in | 2,650 | 108" | 2,750 | 108" | 2,750 | 108" | 2,750 | 108" | 2,750 | 108" | 2,750 | 108" | 2,880 | 113" | 2,750 | 108" | 3,000 | 118" | 2,750 | 108* |
| a1 clearance circle | mm | ft in | 12,040 | 39 ¹ 6" | 12,180 | 40' | 12,040 | 39'6" | 12,100 | 39,8, | 12,050 | 39'6" | 12,100 | 39'8" | 12,770 | 41' 11" | 12,300 | 40'4" | 12,700 | 41'8" | 300 | 1' 0" |
| Operating weight | kg | lb | 15,470 | 34,110 | 15,460 | 34,080 | 15,330 | 33,810 | 15,580 | 34,350 | 15,350 | 33,850 | 15,490 | 34,160 | 15,680 | 34,620 | 15,840 | 34,920 | 16,270 | 35,870 | 790 | 1,730 |

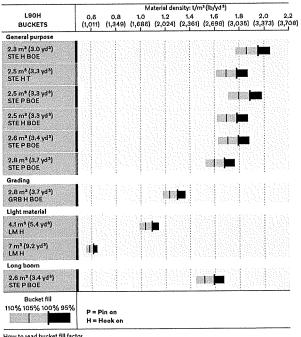
^{*}Calculated with additional protective guarding. (WL86009,WL86010)

Note: This only applies to genuine Volvo attachments.

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 1.55 t/m3 (2,610 lb/yd3). Result: The 2.6m3 (3.4yd3) bucket carries 2.7m3 (3.5 yd3). For optimum stability always consult the bucket selection

| Material | | Material density | | ISO/SAE bucket volume | | Actual volume | | |
|-----------------|---------|----------------------------|-------------------------------|--------------------------|-------------------|-------------------|-------------------|--|
| | fill, % | t/m³ | lb/yd3 | m³ | yd ³ | m³ | yd³ | |
| Earth/Clay | ~ 110 | ~ 1.55 ~ 1.45 ~ 1.40 | | | 3.3 3.4 3.7 | 2.7 2.9 3.1 | 3.5 3.8 4.0 | |
| Sand/ Gravel | ~ 105 | ~ 1.65 ~ 1.55 ~ 1.50 | ~ 2,780 ~ 2,610 ~ 2,530 | 2.5 2.6 2.8 | 3.3 3.4 3.7 | 2.6 2.7 2.9 | 3.4 3.5 3.7 | |
| Aggregate | ~ 100 | | ~ 2,950 ~ 2,780 ~ 2,700 | 2,6 | 3.3 3.4 3.7 | 2.5 2.6 2.8 | 3,3 3,4 3,7 | |
| Rock | ≤100 | ~ 1.80 | ~ 3,030 | 2.2 | 2.9 | 2.2 | 2.9 | |



How to read bucket fill factor

| | | | | Standar | d boom | boom | | Long boom | |
|-------------------------|----|-------------|------|---------------|--------|---------------|------|-----------|--|
| Tires 20.5 R25 L3 | | 20.5 R25 L2 | | 650/65 R25 L3 | | 650/65 R25 L3 | | | |
| Width over tires | mm | ft in | +4 | +0.2 | +164 | +6.5 | +164 | +6.5 | |
| Ground clearance | mm | ft in | -8 | -0.3 | -4 | -0.2 | +12 | +0.5 | |
| Tipping load, full turn | kg | lb | -70 | -154 | +315 | +694 | +287 | +633 | |
| Operating weight | kg | lb | -111 | -245 | +545 | +1,202 | +543 | +1,197 | |

^{**}Calculated with logging counterweight.

Equipment

| | L60H | L70H | L90 |
|---|------|------|------|
| Engine | | | 1200 |
| Exhaust after-treatment system | | | |
| 3-stage air cleaner, pre-cleaner, primary and | | | |
| secondary filter | • | • | • |
| Indicator glass for coolant level | | | |
| Preheating of induction air | | | |
| Fuel pre-filter with water trap | | | |
| Fuel filter | • | • | • |
| Crank case breather oil trap | | | |
| Exhaust heat ventilation | • | • | • |
| Delayed engine shutdown | | | |
| Tires | | | |
| 20.5R25 | | | |
| Drivetrain | | | |
| Automatic Power Shift | | • | |
| Fully automatic gear shifting, 1-4 | • | • | • |
| PWM-controlled gear shifting | • | | |
| Forward and reverse switch by hydraulic lever console | • | • | • |
| Rimpull control | | | |
| Indicator glass for transmission oil level | • | • | • |
| Differentials: Front, 100% hydraulic diff lock. Rear, | | | |
| conventional | | | |
| Electrical system | | | |
| 24 V, pre-wired for optional accessories | • | • | • |
| Alternator 80A/3135W | • | • | • |
| Battery disconnect switch | | | |
| Maintenance-free batteries | • | • | • |
| Battery box, steel | | | |
| Fuel gauge | • | • | • |
| 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) | • | | |
| CoPilot | • | • | • |
| Rearview camera in CoPilot | • | • | |
| Max Boom Height | • | • | |

| STANDARD EQUIPMENT | | | |
|--|--------------------|------|------|
| | L60H | L70H | L90H |
| Contronic monitoring system | | | |
| Contronic display | • | • | • |
| Fuel consumption | • | • | • |
| Diesel Exhaust Fluid/AdBlue consumption | • | • | • |
| Ambient temperature | • | • | |
| Clock | • | • | • |
| Test function for warning and indicator lights | | • | • |
| Brake test | • | • | • |
| 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 | • | • | • |
| Crank case pressure | • | | • |
| Attachment lock open | • | • | • |
| Level warnings: | E SUB | | |
| Fuel level | • | • | • |
| Diesel Exhaust Fluid/AdBlue 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 crank case pressure | | | |
| High charge air temperature | • | • | • |
| Engine shutdown to idle in case of malfunction indication | | | |
| High transmission oil temperature | | | • |
| Slip in transmission clutches | | • | • |
| Key pad, background lit | | • | • |
| Start interlock when gear is engaged | • | • | • |
| Hydraulic system | | | |
| Boom suspension system | | | |
| Main valve, double acting 2-spool with hydraulic pilots | • | • | • |
| Variable displacement axial piston pumps (2) for: | | | |
| Working hydraulics, pilot hydraulics, steering | | | |
| system, brakes | | | |
| Cooling fan, brakes | | | |
| Hydraulic control levers | | | |
| Hydraulic lever lock | • | | |
| Automatic boom kick-out | | | |
| Automatic bucket positioner | • | | |
| Double acting hydraulic cylinders | | | |
| Indicator glass for hydraulic oil level | | | |
| Hydraulic oil cooler | No. of Concession, | 1 | |

| STANDARD EQUIPMENT | | | |
|--|------|------|------|
| | L60H | L70H | L90H |
| Brake system | | | |
| Dual brake circuits | | | • |
| Dual brake pedals | • | | • |
| Secondary brake system | | | • |
| Parking brake, electrical-hydraulic | • | • | • |
| Brake wear indicators | | • | |
| Outboard mounted circulating oil cooled wet disc | | | |
| brakes on all four wheels | | | |
| 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 rearview mirrors | | • | • |
| Dual exterior rearview mirrors | • | • | • |
| Sliding window, right side | | • | • |
| Tinted safety 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 | | • | |
| Foot step, left side (toolbox lockable included) | • | • | • |
| Service and maintenance | | | |
| Engine oil remote drain and fill | | | |
| Transmission oil remote drain and fill | • | • | • |
| Sliding hydraulic oil cooler and AC-condenser | | | |
| Lubrication manifolds, ground accessible | • | • | • |
| Pressure test ports: transmission and hydraulic, | | | |
| quick connects | | | |
| Service platforms with anti-slip surfaces | • | • | • |
| Quick-fit hydraulic oil fill | | • | • |
| CareTrack | • | • | • |
| Telematics, 6 -year subscription | | • | • |
| Toolbox, lockable | • | • | • |
| External equipment | | | |
| Basic fenders, front and rear | | | • |
| Viscous cab mounts | • | • | • |
| Rubber engine and transmission mounts | | | • |
| Engine hood, electronically openable | • | • | • |
| Frame, joint lock | | • | • |
| Vandalism lock for engine compartment | • | • | • |
| Lifting eyes | | | |
| Tie down eyes | • | • | • |
| Tow hitch | | | |
| Counterweight, pre-drilled for optional guards | | • | |
| •••••• | | | |

| OPTIONAL EQUIPMENT | | | |
|--|------|------|------|
| | L60H | L70H | L90H |
| Engine | | | |
| Air pre-cleaner, cyclone type | • | • | • |
| Air pre-cleaner, oil-bath type | • | • | • |
| Air pre-cleaner, turbo type | | | • |
| Engine auto shut down | • | • | • |
| Engine block heater, 120V / 230V | • | • | • |
| Fuel heater | • | • | • |
| Fuel fill strainer | | • | • |
| Hand throttle control | • | • | • |
| Max. fan speed, hot climate | | • | • |
| Reversible cooling fan | • | • | • |
| Drivetrain | | | |
| Lock-up torque converter | | • | • |
| Rear axle with limited slip | • | • | • |
| Speed limiter, 20 km/h | • | • | |
| Speed limiter, 30 km/h | • | • | • |
| Speed limiter, 40 km/h | | | • |
| Hydraulic system | | | |
| Arctic kit: Attachment locking, pilot hoses and | | 1 | |
| hydraulic oil | | | |
| Attachment bracket, cast, visibility-optimized | • | • | • |
| Attachment bracket, side-tilting | • | • | • |
| Separate attachment locking, long boom | • | • | • |
| Separate attachment locking, standard boom | • | • | |
| Single acting lifting function | • | • | • |
| HD load-sensing hydraulics, pump kit included | - | • | - |
| Hydraulic fluid, biodegradable, Volvo | • | • | • |
| Hydraulic fluid, fire resistant | • | • | • |
| Hydraulic fluid, for hot climate | • | • | • |
| Hydraulic, 3 functions, standard/long boom | • | | |
| Hydraulic, 4 functions, standard/long boom | • | | |
| Detent for 3rd hydraulic function | | | |
| Adjustable flow for 3rd hydraulic function | • | | |
| Single lever control, 2 functions | | | |
| Single lever control, 3 functions | • | | |
| Hydraulic, 2 functions Electro-servo, std/long boom | 1 | • | • |
| Hydraulic, 3 functions Electro-servo, std/long boom | 1 | • | • |
| Hydraulic, 4 functions Electro-servo, std/long boom | | | |
| Single lever control, 2 funct Electro-servo, std/long boom | | • | • |
| Single lever control, 3 funct Electro-servo, std/long boom | | • | • |
| Single lever control, 4 funct Electro-servo, std/long boom | | • | • |
| Brake system | | | |
| Stainless steel, brake lines | - | • | • |
| Axle oil cooler | - | | • |
| Parking brake alarm, audible | • | • | • |
| | | | |

Equipment

| OPTIONAL EQUIPMENT | | | | |
|---|------|------|------|---|
| | L60H | L70H | L90H | |
| Cab | | | | |
| ACC control panel, with Fahrenheit scale | • | • | • | |
| Anchorage for Operator's manual | • | • | | |
| Asbestos dust protection filter | • | • | • | |
| Automatic Climate Control, ACC | | • | • | |
| Automatic Climate Control, ACC, corrosion protec- | | | | |
| tion condenser | | | | 3 |
| Cab air pre-cleaner, cyclone type | • | • | | |
| Carbon filter - cab | • | • | • | |
| Remote door opener | • | • | • | |
| Lunch box holder | | • | • | 3 |
| Operator's seat, Volvo air-suspended, heavy-duty, | | | | |
| high back, heated | | | | |
| Operator's seat, Volvo air-susp, 3-point seatbelt | • | • | • | |
| Operator's seat, Premium Comfort ISRI | • | • | | |
| Operator's seat, Premium Comfort ISRI 3-point | • | • | • | |
| seat belt | | | | , |
| Armrest, operator's seat, ISRI, left only | • | • | • | ļ |
| Armrest, operator's seat, Volvo, left | • | | | |
| Safety belt, 3" (75mm) width | • | • | • | |
| Safety belt warning | | • | • | |
| Radio installation kit including 12 volt outlet, left-side | | • | | |
| Radio installation kit including 12 volt outlet, right-side | • | • | • | |
| Radio installation kit, 12V, for USA | • | | • | |
| Radio with AUX, Bluetooth and USB connection | • | • | • | |
| DAB Radio | • | | • | |
| Subwoofer | • | • | | |
| Forward view mirror | • | | • | |
| Rear view mirrors, el.adjusted and heated | • | • | • | |
| Rear view mirrors, long arm right | • | | • | |
| Rear view mirrors, el.adjusted and heated, long arm right | • | • | • | |
| Steering wheel knob | • | | | |
| Sun blinds, rear windows | • | • | • | |
| Sun blinds, side windows | | | | |
| Timer cab heating | • | • | • | |
| Universal door/ignition key | • | • | | |
| Window, sliding, door | • | • | • | |
| 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 | | | | |
| Automatic lubrication system for long boom | | | • | |
| Oil sampling valve | | | | |
| Refill pump for automatic lubrication system | | | • | |
| Tool kit | | | | |
| Wheel nut wrench kit | • | | | |
| Electrical | | | | |
| Battery disconnect switch, additional in cab | | • | • | • |
| Anti-theft device | | | | |
| | | • | • | |
| Headlights, assym. left | | | • | į |
| Headlights, assym. right LED | | | | |
| Headlights, assym. left LED | • | • | • | |

| OPTIONAL EQUIPMENT | L60H | L70H | L90H |
|---|------|------|------|
| Emergency stop | | • | |
| License plate holder, lighting | • | • | |
| Reduced function working lights when reverse gear activated | | | • |
| Side marker lamps | • | • | • |
| Forward camera, colour | • | • | • |
| Rear view camera including monitor, colour | • | • | • |
| Rear view mirrors, long arm, right side | | | |
| Rearview mirrors, adjustable, el. heated | • | • | • |
| Reverse alarm | • | • | |
| Reverse lights | • | • | |
| Reversing warning light | • | | • |
| Reverse warning light, strobe lightning | • | • | |
| Warning beacon (flasher), LED automatic | • | | |
| Warning beacon (flasher), LED | | | |
| Seatbelt indicator, external | | | |
| Working lights, attachments, 1 LED 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 | • | • | ٠ |
| 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 | • | • | |
| Can Bus Interface | • | • | • |
| Anti-theft device | • | • | |
| Bellyguard front | | | |
| Bellyguard rear | • | • | • |
| Boom cylinder hose and tube guards | | | |
| Cab roof, heavy duty | | • | • |
| Center hinge and rear frame guard | | | |
| Corrosion protection, painting of machine | • | • | . • |
| Cover plate front frame, heavy-duty | | | • |
| Cover plate, under cab | • | • | • |
| Cover plates rear frame | • | • | • |
| Guards for front headlights | • | • | • |
| Grease nipple guards | - | • | • |
| Guards for radiator grill | - | | |
| Guards for tail lights, heavy-duty | | • | • |
| Wheel/axle seal guards | | | |
| Window guards, side and rear Windshield guard | | | |
| Other Equipment | | | |
| CareTrack, GSM/Satellite | | • | |
| CE-marking | | | |
| Comfort Drive Control (CDC) | • | | |
| Comfort Drive Control (CDC) Electro-servo | | | |
| Secondary steering | • | • | • |
| Counterweight, logging | | | |
| Counterweight, signal painted, chevrons | • | • | • |
| Noise reduction kit, EU excluding decal | | | |
| Sign, 50 km/h | • | • | • |
| Sign, slow moving vehicle | | | |

| OPTIONAL EQUIPMENT | | | |
|--|------|------|------|
| OF HORAL EGOIFMENT | L60H | L70H | L90H |
| External equipment | | | |
| Deleted front mudguards | | | |
| Bracket for fire extinguisher | • | • | • |
| Fire suppression system | • | | |
| Mudguards, full cover, rear for 80-series tires | • | • | • |
| Mudflap kit for mudguards, full cover for 80-series tires | • | | |
| Mudguards, full cover, rear and front/rear for 65-series tires | • | • | • |
| Mudflap kit for mudguards, full cover for 65-series tires | • | • | |
| Footsteps front frame | • | • | • |
| Footsteps, right-hand side | • | • | |
| Flexible rear step | • | • | • |
| Cab ladder, rubber suspended | • | • | • |
| Tires and Rims | | | |
| 20.5R25 | • | • | • |
| 600/65R25 | • | • | |
| 650/65R25 | | | • |
| 620/75R26 Agriculture application only | • | • | |
| 750/65R26 Agriculture application only | • | • | • |

| OPTIONAL EQUIPMENT | 1,0011 | | |
|---------------------------------|--------|------|------|
| | L60H | L70H | L90H |
| Attachments | | | |
| Buckets: | | | |
| Straight | • | • | • |
| Spade nose | | • | • |
| High tipping | • | • | • |
| Light material | | • | • |
| Grading | • | • | • |
| Wear parts: | | | |
| Bolt-on edge | • | • | • |
| Bolt-on or weld-on bucket teeth | | | |
| Segments | • | • | • |
| Log grapples | • | | • |
| Fork equipment | • | • | • |
| Material handling arm | • | | • |
| Snow blade | • | • | • |
| Broom | | | • |
| Sand spreading bucket | • | • | • |
| Bale clamp | | • | |
| Drum rotator | • | • | • |

SELECTION OF VOLVO OPTIONAL EQUIPMENT

External axle cooling (L70H, L90H)



Reversing camera with radar detect CoPilot



Premium seat



Comfort Drive Control



Light packages



Lock-up converter (L70H, L90H)



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.





REPORT OF THE PORT OF THE PORT

Volvo Construction Equipment North America

Warranty — Disclaimers — Limitations
Limited Warranty

Volvo Construction Equipment North America ("Volvo CE") hereby estends to its authorized dealers ("Dealer") and the Dealer's eaches contourned ("Customer", and but Dealer and Construer are referred to herein as a "Buyer"), who purchase a new Volvo construction equipment machine ("Machine") or new Volvo part ("Pare", both of which are referred to herein as a "Buyer"), who purchase a new Volvo construction equipment machine ("Machine") or new Volvo part ("Pare", both of which are referred to herein as a "Product") from Volvo the following limited warranty:

Subject to the exceptions and limitations set forth below, Volvo CE or Dealer will repair or replace any part of a new Machine or new Part which proves to be defective in material or workmanship during the following periods (the "Warranty Ferrick")?

Wolvo articulated lamiers: 12 months 2500 hours, whichever first occurs

Volvo articulated lamiers: 12 months 2500 hours, whichever first occurs

Volvo motor garders: 12 months 2500 hours, whichever first occurs

Volvo motor garders: 12 months 2500 hours, whichever first occurs

24 month unfinited hours on 6000 77000 series povers

Wolvo provers: 12 months 2500 hours, whichever first occurs

24 month unfinited hours on 6000 77000 series povers

Wolvo provers: 12 months 2500 hours, whichever first occurs

Volvo provers by formalic exervations (less than It merits tongs): 12 months/unfinited hours

Volvo backhoe hoaders: 12 months/unlimited hours. Lifetime arm for one-sided

Volvo compact by fraudic exervations (less than It merits tongs): 12 months/unlimited hours

Volvo parties: 6 months/unlimited hours

Wolvo parties: 6 months/unlimit

Warranty – Disclaimers – Limitations

LIMITATIONS OF LIABILITY AND DAMAGES

Regardless of whether a claim against Volvo CE or Dealer is based on the foregoing warranty or is an action in contract, tort (negligence or strict liability) or otherwise, their respective liability for losses, damages or expenses of any kind arising from the design, manufacture, repair or sale of the Products is limited, unless otherwise prohibited by law, to an amount not exceeding the cost performing the obligations contained in the foregoing warranty, and in no event shall their respective or joint liability exceed the value of the Product or part thereof giving rise to such liability.

CONSEQUENTIAL AND SIMILAR DAMAGES NOT RECOVERABLE

Except for performing the obligations of the foregoing warranty in accordance with its terms, Volvo CE and Dealer shall have no liability for loss, damage, or expense, directly or indirectly, attributable to a loss of use of a Product, loss or damage to property other than the Product, loss or damage to the Product or any part thereof or any other economic or commercial loss, including, without limitation, lost profits or special or consequential damages (except liability for any type of consequential damages which by law may not be disclaimed). The parties intend that this prohibition against consequential and similar damages will survive and be effective even if the limitation of remedies in the foregoing sections is found to fail of its essential purpose under section 2-719 of the Uniform Commercial Code.

ALLOCATION OF RISK

The foregoing warranty disclaimers, limitations of liability and limitation of remedies are bargained allocations of risks among (i) the Customer who purchased the Product; (ii) the Dealer who sold the Product, and (iii) Volvo CE, which is a third party beneficiary of the contract of sale between the Customer and the Dealer. The Buyer of the Product accepts the foregoing warranty and the other bargained for allocations of risk as part of the agreed price for the purchase of the Product to which the foregoing warranty applies. Volvo CE is prepared to offer different warranties and other allocations of risk for other prices. However, any such change in the warranty or the allocation of risks must be confirmed in writing by Volvo CE.

STATUTE OF LIMITATIONS

Any action by a Buyer of a Product for breach of contract, for breach of warranty arising under, or for a cause of action arising out of the sale of a Product, whether based on contract, tort (negligence or strict liability) or otherwise, shall be commenced within one (1) year after the cause of action has accrued. Any such cause of action shall be deemed to have accrued at the earlier of (i) the discovery of the defect or breach, or (ii) the expiration of the applicable Warranty Period.