Volvo Construction Equipment

L150H, L180H, L220H 2.0

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 forunners, 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 with ±2% 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.

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.

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.

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

INDUSTRY LEADING SERVICEABILITY

For simple servicability, 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 electonically controlled unit injectors. The engine has wet replacable cylinder liners and replacable valve guides and valve seats. The throttle applications is transmitted electrically from the throttle pedal or the optional hand throttle .
Air Cleaning: 2 stages.
Cooling system: Hydrostatic, electronically controlled fan and intercooler of the air-to-air type.

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 (in³)	12.8 (781)

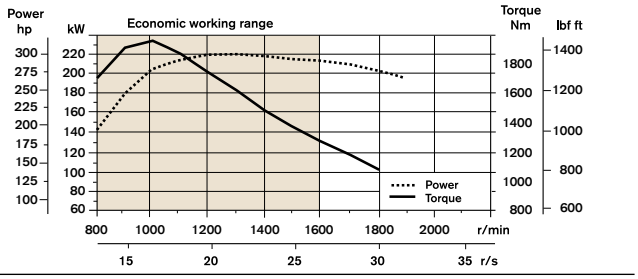
L180H

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 (in³)	12.8 (781)

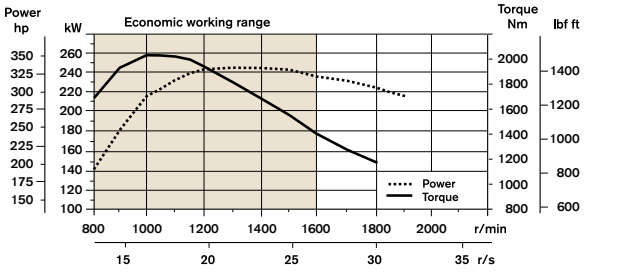
L220H

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 (in³)	12.8 (781)

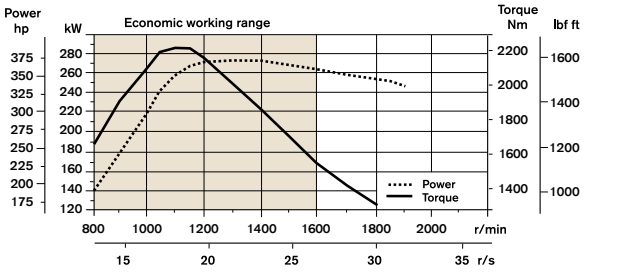
L150H



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	mm (in)	610 (24)	610 (24)	600 (23.6)
at oscillation	°	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
Accumulators	l (gal)	2 x 1.0 + 3 x 0.5 (2 x 0.26 + 3 x 0.13)	2 x 1.0 + 1 x 0.5 (2 x 0.26 + 1 x 0.13)	2 x 1.0 + 1 x 0.5 (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 loadsensing 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 level in cab according to ISO 6396/SAE J2105				
LpA	dB(A)	69	70	70
External sound level according to ISO 6395/SAE J2104				
LwA	dB(A)	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

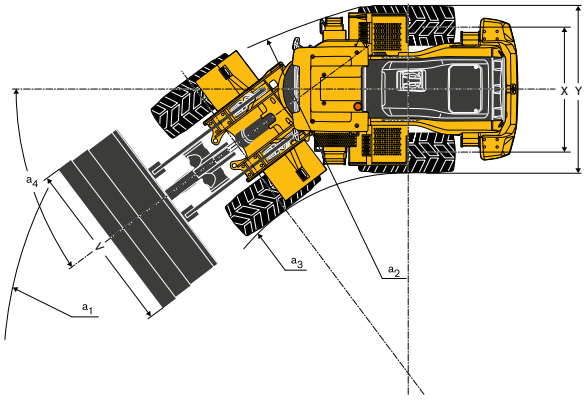
Bucket: L150H: 4.0 m³ (5.2 yd³) GP STE P T SEG
L180H: 4.6 m³ (6.0 yd³) GP STE P T SEG
L220H: 5.2 m³ (6.8 yd³) GP STE P T SEG

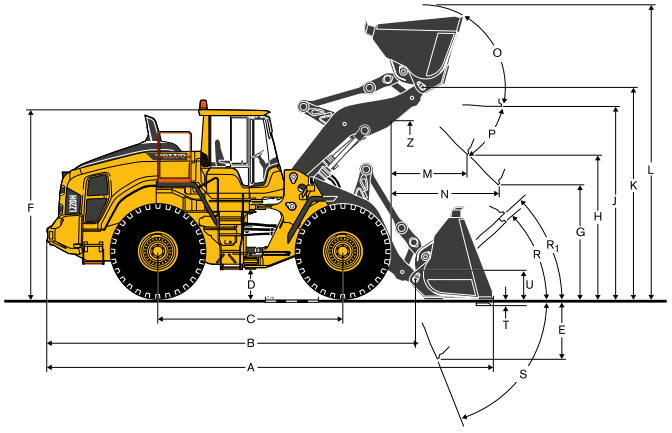
L150H Sales code: WLA80713
Operating weight (incl. logging cw 1,140 kg (2,513 lb)): 25,660 kg (56,571 lb)
Operating load: 7,700 kg (16,976 lb)

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)

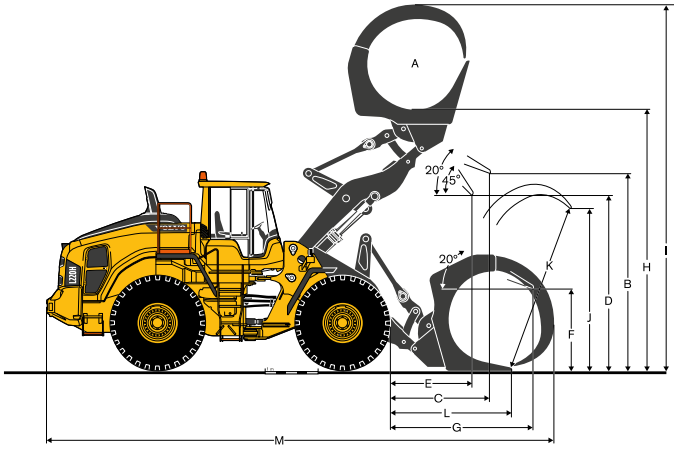
Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.





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



Specifications

L150H

Tires Michelin 26.5 R25 XHA2 L3			REHANDLING**								GENERAL PURPOSE**						ROCK***		LIGHT MATERIAL**		WLA86749 LONG BOOM**	
			WLA86748		WLA86749		WLA86752		WLA86754		WLA93705		WLA93724		WLA93714		WLA93724					
			4.0 m³ (5.2 yd³) STE P BOE		4.4 m³ (5.8 yd³) STE P BOE		4.8 m³ (6.3 yd³) STE P BOE		5.2 m³ (6.8 yd³) STE P BOE		4.0 m³ (5.2 yd³) STE P T SEG		4.4 m³ (5.8 yd³) STE P T SEG		4.0 m³ (5.2 yd³) STE H T SEG		3.5 m³ (4.6 yd³) SPN P T SEG		6.8 m³ (8.9 yd³) LM P			
Volume, heaped ISO/SAE	m³	yd³	4.0	5.2	4.4	5.8	4.8	6.3	5.2	6.8	4.0	5.2	4.4	5.8	4.0	5.2	3.5	4.6	6.8	8.9	4.4	5.8
Volume at 110% fill factor	m³	yd³	4.4	5.8	4.8	6.3	5.3	6.9	5.7	7.5	4.4	5.8	4.8	6.3	4.4	5.8	3.9	5	7.5	9.8	4.8	6.3
Static tipping load, straight	kg	lb	20,190	44,530	20,000	44,100	19,770	43,600	19,660	43,360	20,310	44,790	19,930	43,940	19,560	43,130	18,820	41,500	19,410	42,800	-3,880	-7,826
at 35° turn	kg	lb	18,020	49,720	17,830	39,310	17,610	38,830	17,500	38,580	18,150	40,020	17,770	39,180	17,440	38,460	16,810	37,070	17,290	38,120	-3,560	-7,209
at full turn	kg	lb	17,770	39,180	17,580	38,760	17,360	38,220	17,250	38,040	17,900	39,480	17,520	38,630	17,200	37,920	16,580	36,570	17,040	37,580	-3,520	-7,121
Breakout force	kN	lbf	201.2	45,240	191.5	43,050	183.2	41,190	182.6	41,060	202	45,350	192.4	43,260	189.6	42,640	188.4	42,370	146.6	32,960	9	2,023
A	mm	ft in	8,600	28'2"	8,660	28'5"	8,730	28'8"	8,740	28'8"	8,810	28'11"	8,890	29'2"	8,930	29'3"	8,880	29'2"	9,120	29'11"	520	1'8"
E	mm	ft in	1,230	4'0"	1,300	4'3"	1,360	4'6"	1,370	4'6"	1,430	4'8"	1,500	4'11"	1,520	5'0"	1,480	4'10"	1,710	5'7"	10	-0,4"
H	mm	ft in	3,030	9'11"	2,970	9'9"	2,920	9'7"	2,920	9'7"	2,870	9'5"	2,820	9'3"	2,800	9'2"	2,840	9'4"	2,620	8'7"	570	1'10"
L	mm	ft in	5,810	18'1"	5,890	19'04"	5,960	19'7"	5,960	19'7"	5,880	19'4"	5,990	19'8"	6,040	19'10"	5,980	19' 8"	6,090	20' 0"	570	1'10"
M	mm	ft in	1,220	4'0"	1,270	4'2"	1,320	4'4"	1,320	4'4"	1,380	4'6"	1,430	4'8"	1,450	4'9"	1,420	4'8"	1,560	5'2"	-25	-0,1"
N	mm	ft in	1,800	5'11"	1,830	6'0"	1,860	6'1"	1,860	6'1"	1,900	6'3"	1,920	6'4"	1,930	6'4"	1,910	6'3"	1,940	6' 4"	450	1'6"
V	mm	in	3,200	125"	3,200	125"	3,200	125"	3,400	133"	3,200	125"	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"	14,740	48'4"	14,770	48'6"	14,600	47'11"	14,810	48'7"	14,900	48' 10"	340	1'1"
Operating weight	kg	lb	25,210	55,590	25,340	55,870	25,490	56,200	25,590	56,420	25,200	55,570	25,540	56,320	25,530	56,280	25,570	56,390	25,660	56,580	410	904

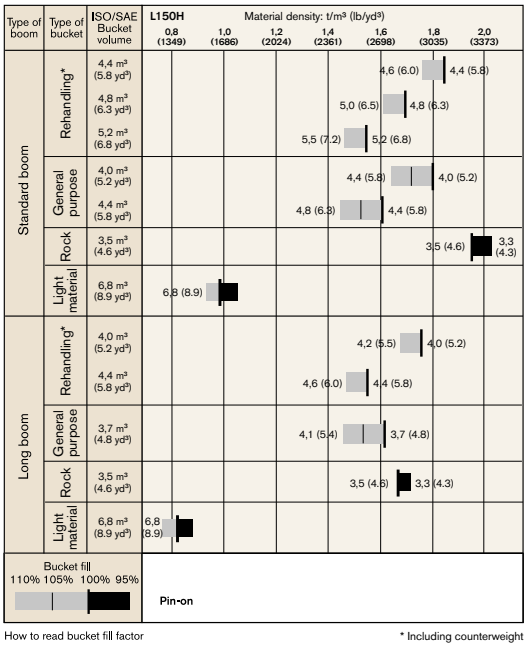
Note: This only applies to genuine Volvo attachments.
**) Calculated with the rehandling counterweght included.
***) Calculated with L5 Tires (No additional counterweight)

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/m³	lb/yd³	m³	yd³	m³	yd³
Earth/Clay	~ 110		~ 1.6 ~ 1.5	~ 2,698 ~ 2,530	4.0 4.4	5.2 5.8	~ 4.4 ~ 4.8	~ 5.8 ~ 6.3
Sand/ Gravel	~ 105		~ 1.6 ~ 1.5	~ 2,698 ~ 2,530	4.0 4.4	5.2 5.8	~ 4.2 ~ 4.6	~ 5.5 ~ 6.0
Aggregate	~ 100		~ 1.8 ~ 1.7 ~ 1.5	~ 3,035 ~ 2,867 ~ 2,530	4.4 4.8 5.2	5.8 6.3 6.8	~ 4.4 ~ 4.8 ~ 5.2	~ 5.8 ~ 6.3 ~ 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.



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 Michelin 26.5 R25 XHA2 L3			REHANDLING**								GENERAL PURPOSE**						ROCK***		LIGHT MATERIAL**		WLA86754 LONG BOOM**	
			WLA86752		WLA86754		WLA86755		WLA86756		WLA87106		WLA87113		WLA87118		WLA85411					
			4.8 m³ (6.3 yd³) STE P BOE		5.2 m³ (6.8 yd³) STE P BOE		5.5 m³ (7.2 yd³) STE P BOE		5.8 m³ (7.6 yd³) STE P BOE		4.4 m³ (5.8 yd³) STE P T SEG		4.6 m³ (6.0 yd³) STE P T SEG		4.8 m³ (6.3 yd³) STE P T SEG		4.2 m³ (5.5 yd³) SPN P T SEG		7.8 m³ (10.2 yd³) LM P			
Volume, heaped ISO/SAE	m³	yd³	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	5.2	6.8
Volume at 110% fill factor	m³	yd³	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	5.7	7.5
Static tipping load, straight	kg	lb	23,520	51,850	23,400	51,600	23,230	51,230	23,090	50,900	23,830	52,550	23,640	52,120	23,550	51,940	22,260	49,090	22,570	49,760	-4,070	-8,970
at 35° turn	kg	lb	20,870	46,020	20,760	45,760	20,600	45,410	20,450	45,090	21,200	46,750	21,000	46,300	20,920	46,120	19,770	43,590	19,980	44,060	-3,710	-8,160
at full turn	kg	lb	20,570	45,350	20,450	45,100	20,290	44,750	20,150	44,430	20,900	46,090	20,700	45,640	20,620	45,460	19,490	42,970	19,690	43,410	-3,660	-8,070
Breakout force	kN	lbf	224.8	50,550	224.2	50,400	216.2	48,610	210.0	47,230	236.1	53,080	231.9	52,140	226,5	50,940	212.9	47,860	173.4	39,000	3.4	850
A	mm	ft in	8,900	29'2"	8,900	29' 2"	8,970	29'5"	9,020	29'7"	9,050	29' 8"	9,080	29' 9"	9,120	29' 11"	9,160	30' 1"	9,360	30' 9"	470	1' 6"
E	mm	ft in	1,430	4' 8"	1,430	4' 8"	1,490	4' 11"	1,540	5'1"	1,560	5' 2"	1,590	5' 3"	1,630	5' 4"	1,660	5' 5"	1,860	6' 1"	30	0, 2"
H**)	mm	ft in	3,060	10'0"	3,050	10'0"	3,010	9'11"	2,980	9'9"	2,960	9' 9"	2,940	9' 8"	2,910	9' 7"	2,900	9' 6"	2,700	8' 10"	490	1' 8"
L	mm	ft in	6,100	20' 0"	6,100	20' 0"	6,160	20' 3"	6,210	20'5"	6,100	20' 0"	6,150	20' 2"	6,180	20' 3"	6,320	20' 9"	6,300	20' 8"	490	1' 8"
M**)	mm	ft in	1,330	4'4"	1,340	4'5"	1,370	4' 6"	1,410	4'8"	1,440	4' 9"	1,460	4' 10"	1,490	4' 11"	1,510	4' 11"	1,610	5' 4"	20	0,6"
N**)	mm	ft in	1,960	6'5"	1,960	6'5"	1,990	6' 7"	2,010	6'7"	2030	6' 8"	2,040	6' 8"	2,050	6' 9"	2,070	6' 9"	2,060	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"	0	0
a1 clearance circle	mm	ft in	14,800	48'7"	14,990	49' 2"	15,010	49 '3"	15,040	49'4"	14,880	48' 10"	14,880	48' 10"	14,900	48' 11"	14,960	49' 1"	15,220	49' 11"	290	1' 0"
Operating weight	kg	lb	28,090	61,940	28,190	62,150	28,300	62,390	28,380	62,590	28,060	61,870	28,120	62,000	28,170	62,120	28,490	62,820	28,570	62,990	310	690

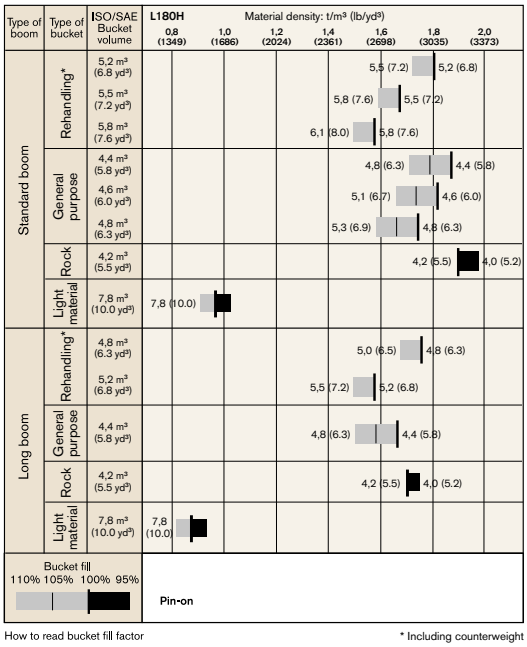
Note: This only applies to genuine Volvo attachments.No
**) Calculated with the rehandling counterweght included.
***) Calculated with L5 Tires (No additioanl counterweight)

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/m³	lb/yd³	m³	yd³	m³	yd³
Earth/Clay	~ 110		~ 1.7 ~ 1.6 ~ 1.5	~ 2,867 ~ 2,698 ~ 2,530	4.9 5.2 5.4	6.4 6.8 7.1	~ 4.8 ~ 5.1 ~ 5.3	~ 6.3 ~ 6.7 ~ 6.9
Sand/ Gravel	~ 105		~ 1.7 ~ 1.6 ~ 1.5	~ 2,867 ~ 2,698 ~ 2,530	4.4 4.6 4.8	5.8 6.0 6.3	~ 4.6 ~ 4.8 ~ 5.1	~ 6.0 ~ 6.3 ~ 6.7
Aggregate	~ 100		~ 1.8 ~ 1.7 ~ 1.6	~ 3,035 ~ 2,867 ~ 2,698	5.2 5.5 5.8	6.8 7.2 7.6	~ 5.2 ~ 5.5 ~ 5.8	~ 6.8 ~ 7.2 ~ 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.



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 Michelin 29.5 R25 XHA2 L3			REHANDLING**								GENERAL PURPOSE**						ROCK***		LIGHT MATERIAL**			
			WLA86759		WLA86760		WLA86761		WLA86779		WLA87132		WLA87135		WLA87137		WLA85417				WLA86760 LONG BOOM**	
			5.6 m³ (7.3 yd³) STE P BOE		5.9 m³ (7.7 yd³) STE P BOE		6.3 m³ (8.2 yd³) STE P BOE		6.3 m³ (8.2 yd³) STE P T SEG		5.2 m³ (6.8 yd³) STE P T SEG		5.6 m³ (7.3 yd³) STE P T SEG		6.0 m³ (7.8 yd³) STE P T SEG		5.0 m³ (6.5 yd³) SPN P T SEG		8.2 m³ (10.7 yd³) LM P			
Volume, heaped ISO/SAE	m³	yd³	5.6	7.3	5.9	7.7	6.3	8.2	6.3	8.2	5.2	6.8	5.6	7.3	6.0	7.8	5.0	6.5	8.2	10.7	5.9	7.7
Volume at 110% fill factor	m³	yd³	6.2	8.1	6.5	8.5	6.9	9.1	6.9	9.1	5.7	7.5	6.2	8.1	6.6	8.6	5.5	7.2	9.0	11.8	6.5	8.5
Static tipping load, straight	kg	lb	25,190	55,540	25,030	55,190	24,850	54,800	24,730	54,540	25,200	55,560	25,040	55,210	25,180	55,520	23,740	52,350	24,450	53,910	-2,970	-6540
at 35° turn	kg	lb	22,350	49,280	22,200	48,940	22,030	48,570	21,910	48,300	22,360	49,300	22,200	48,960	22,320	49,210	21,070	46,460	21,650	47,730	-2,730	-6000
at full turn	kg	lb	22,030	48,570	21,870	48,230	21,700	47,860	21,580	47,590	22,030	48,590	21,880	48,240	21,990	48,490	20,770	45,790	21,330	47,030	-2,690	-5940
Breakout force	kN	lbf	228.8	51,450	223.1	50,160	215.0	48,350	215.9	48,550	240.8	54,140	232.2	52,220	235.2	52,880	196.8	44,260	190.8	42,910	3.0	680
A	mm	ft in	9,270	30' 5"	9,320	30' 7"	9,390	30' 10"	9,370	30' 9"	9,410	30' 11"	9,480	31' 1"	9,460	31' 0"	9,750	32' 0"	9,590	31' 5"	310	1' 0"
E	mm	ft in	1,470	4' 10"	1,510	4' 10"	1,570	5' 2"	1,560	5' 1"	1,600	5' 3"	1,650	5' 5"	1,630	5' 4"	1,870	6' 2"	1,750	5' 9"	-20	-0,1"
H**)	mm	ft in	3,160	10' 4"	3,130	10' 3"	3,080	10' 1"	3,050	10' 0"	3,070	10' 1"	3,030	9' 11"	3,040	10' 0"	2,920	9' 7"	2,910	9' 7"	360	1' 3"
L	mm	ft in	6,360	20' 11"	6,470	21' 3"	6,370	20'11"	6,460	21' 2"	6,440	21' 2"	6,440	21'1"	6,590	21' 7"	6,510	21 '4"	6,450	21' 2"	360	1' 2"
M**)	mm	ft in	1,400	4' 7"	1,480	4' 10"	1,480	4'10"	1,420	4' 8"	1,560	5' 1"	1,560	5' 1"	1,550	5' 1"	1,790	5' 11"	1,610	5' 3"	-80	-0, 3"
N**)	mm	ft in	2,100	6' 11"	2,150	7' 1"	2,150	7'1"	1,990	6' 6"	2,210	7' 3"	2,210	7' 3"	2,200	7' 2"	2,280	7' 6"	2,180	7' 2"	240	0' 9"
V	mm	in	3,400	133"	3,400	133"	3,400	133"	3,400	135"	3,400	133"	3,400	133"	3,400	133"	3,430	135"	3,700	145"	0	0
a1 clearance circle	mm	ft in	15,570	51' 1"	15,590	51' 3"	15,620	51'3"	15,620	51' 3"	15,640	51' 4"	15,670	51' 5"	15,660	51' 5"	15,850	52' 0"	16,020	52' 7"	230	0' 8"
Operating weight	kg	lb	32,050	70,670	32,160	70,910	32,260	71,140	32,370	71,380	32,190	70,980	32,300	71,230	32,420	71,480	33,190	73,190	32,580	71,830	380	850

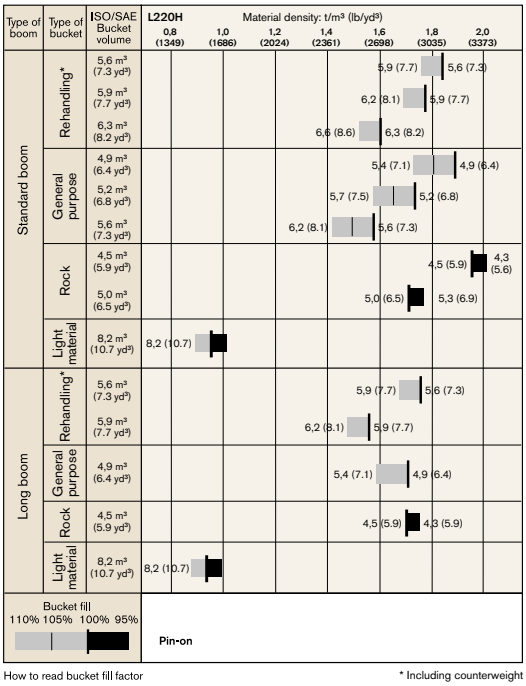
Note: This only applies to genuine Volvo attachments.
**) Calculated with the rehandling counterweght included.
***) Calculated with L5 Tires (No additional counterweight)

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/m³	lb/yd³	m³	yd³	m³	yd³
Earth/Clay	~ 110		~ 1.6 ~ 1.5 ~ 1.4	~ 2,698 ~ 2,530 ~ 2,361	4.9 5.2 5.4	6.4 6.8 7.1	~ 5.4 ~ 5.7 ~ 5.9	~ 7.1 ~ 7.5 ~ 7.7
Sand/ Gravel	~ 105		~ 1.7 ~ 1.6 ~ 1.5	~ 2,867 ~ 2,698 ~ 2,530	4.9 5.2 5.4	6.4 6.8 7.1	~ 5.1 ~ 5.5 ~ 5.7	~ 6.7 ~ 7.2 ~ 7.5
Aggregate	~ 100		~ 1.8 ~ 1.7 ~ 1.6	~ 3,035 ~ 2,867 ~ 2,698	5.6 5.9 6.3	7.3 7.7 8.2	~ 5.6 ~ 5.9 ~ 6.3	~ 7.3 ~ 7.7 ~ 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.



How to read bucket fill factor

* Including counterweight

Supplemental Operating Data

			Standard boom						Long boom					
Tires 29.5 R25 L4			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 Cab	•	•	•
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.

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VOLVO

Volvo Construction Equipment

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