

Volvo Construction Equipment

L150H, L180H, L220H

Volvo Wheel Loaders 33.4-35.5t (73,600-77,800lbs) 299-371hp



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for customers around the globe. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.

A strong, dedicated, capable dealer network.

Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation. The strength of our dealer network is enhanced with extensive individualized product support training at our best-in-class Customer Center in Shippensburg and through hands-on training. Using a great Product Demonstration Center featuring a dedicated area for most commons applications, visitors operate equipment from our entire product line under a variety of simulated working conditions. This facility is in year-round use by our dealers and customers. **Building the best starts right here**.

The products designed and manufactured by Volvo Construction Equipment have their beginnings at the most advanced Research & Design centers in the industry. Volvo CE machines are designed in 11 R&D centers and produced in 15 manufacturing facilities across the world.

The major R&D center and manufacturing plant in the Americas is located in Shippensburg, Pennsylvania. This facility has been in operation for over 30 years and – with its recently added 200,000 sq. ft. expansion – now covers 570,000 sq. ft. on an 80 acre campus. Dedicated work teams and highly advanced technologies and techniques using the Volvo Production System ensure continuous quality improvements, labor savings and cost control to reach the high quality that our customers have come to expect from Volvo.

















Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Financial Services



Volvo Construction Equipment



Volvo Penta

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Volvo Buses



OptiShift

Volvo's OptiShift technology combines the company's patented Reverse By Braking (RBB) technology and a torque converter with lock-up. Lock-up creates a direct drive between the engine and transmission – eliminating power losses in the torque converter and reducing fuel consumption by up to 18%.

Innovative fuel efficiency

Since Volvo Construction Equipment began designing wheel loaders in 1954, machine owners and operators have got to know the legendary reputation of these productive, fuel efficient machines. The new H-Series wheel loaders feature state-of-the-art technology such as OptiShift – a unique technical advancement which reduces fuel consumption by up to 18% and increases machine performance.

Reverse By Braking (RBB)

The Volvo patented RBB function senses the loader's direction and slows the machine when the operator changes direction by applying the service brakes automatically. This increases fuel efficiency and improves operator comfort. RBB is ideal for short cycle or truck loading applications.





Eco pedal

Volvo's unique eco pedal applies mechanical push-back force when the accelerator is used excessively and engine rpm is about to exceed the economic operating range. This encourages the operator to ease off the throttle, reducing fuel consumption.

Intelligent hydraulics

Volvo's load-sensing hydraulics supply power to the hydraulic functions according to demand, lowering fuel consumption. The powerful system ensures fast response for shorter cycle times while delivering smooth operation through superior control of both the load and the attachment.





APS/FAPS

Automatic Power Shift (APS) and Fully Automatic Power Shift (FAPS) ensure optimal operation by adjusting the machine gears in line with parameters including engine and travel speed. This delivers fast cycle times and low fuel consumption. With APS the operator manually shifts down to first gear when more power is needed but with FAPS it's automatic.

Comfort boosts productivity

At Volvo we know that when operators are comfortable they experience less fatigue and work more productively. That's why Volvo's industry-leading cab has been designed with the operator in focus – providing a spacious, safe and quiet environment that's perfect for optimizing productivity all day long.

Information panel

The display clearly presents the operator with vital machine information including fuel and oil levels and warning messages – ensuring optimal operation. From the operator seat, basic configurations and tests can be performed via the panel – which is easy-to-read even in bright sunlight.





Single lever control

For ease of operation, the optional, multi-functional joystick gives the operator simultaneous and precise control of the hydraulic functions. Forward, reverse and kick-down functions are included on the console.

Cab air filter

The cab air intake is located high on the machine, where air is cleanest. The easy-to-replace pre-filter separates coarser dust and particles before the air passes through the main filter and finally enters the cab. Volvo's industry-leading design allows 90% of the cab air to be recirculated through the main filter for continuous dust removal.



Volvo cab

The spacious ROPS/FOPS certified cab provides a comfortable operating environment with ergonomically placed controls and ample storage space. With low internal noise levels and vibration protection, operators will experience a productive work shift.

Porbo



TP Linkage

Volvo's unique Torque Parallel (TP) linkage delivers high breakout torque and excellent parallel movement throughout the entire lifting range.

Loaded with productivity

Maximize your productivity and access more applications when you combine the new L150H, L180H and L220H with Volvo's durable attachments. Whether you're working in the rehandling, extraction, block-handling, recycling or any other application, these machines will effectively perform a variety of tasks and increase your productivity.

Boom Suspension System

The optional Boom Suspension System (BSS) boosts productivity by up to 20% by absorbing shock and reducing the bouncing and bucket spillage that occurs when operating on rough ground. This enables faster and more comfortable work cycles and increases machine life.

Rehandling Bucket

With its optimized shape, the Volvo-designed rehandling bucket has been built to give faster and more efficient bucket fill – leading to up to 10% better fuel efficiency. The bucket features a spill guard, side cutters in line with the bucket sides, a wear plate designed for longer service life and fewer pockets which could trap material.







Volvo attachments

Volvo's durable attachments have been purpose-built to work in perfect harmony with Volvo machines and increase your productivity. The attachments are designed as an integrated part of the wheel loader for which they're intended – with functions and properties ideally matched to parameters including link-arm geometry and breakout, rim pull and lifting force.



Special application options

With a wide variety of options, Volvo customers can adapt their machine to access more applications such as block handling, rock, quarry and waste handling.

Revolutionary reliability

Featuring a premium Volvo Tier 4 Final/Stage IV and perfectly matched drivetrain and hydraulics, the L150H, L180H and L220H wheel loaders deliver power, productivity and reliability. Experience Volvo's proven, advanced technology and benefit from ultimate quality and durability.

Volvo engine

Featuring advanced technology and built on decades of experience, the powerful Volvo Tier 4 Final/Stage IV engine delivers high performance and low fuel consumption. During the regeneration process, particulate matter collected in the DPF is burnt off without interrupting operation, performance or productivity.



Reversible cooling fan

The hydraulically-driven, electronically controlled cooling fan regulates the temperature of the vital components. It automatically activates only when it's needed – reducing fuel consumption and noise. The optional reversible functionality – which blows air in the opposite direction – allows for self-cleaning of the cooling units.





Axle oil cooling

Both the front and the rear axle feature an axle oil circulation feature which allows the axle oil to flow and cool inside the axle – protecting components.



votvo

Powertrain

The ideally-matched, all-Volvo powertrain has been built to work together in perfect harmony. The Volvo design has been rigorously tested to deliver optimized performance, high productivity, low fuel consumption and superior reliability.

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Tilting cab

The cab can be tilted in two positions – 35° and 70°. Tilting the cab greatly improves service and maintenance access which leads to more uptime and increased machine availability. The cab is tilted via a manually operated pump.

Easy access = more uptime

Taking care of your wheel loader shouldn't be complicated. That's why the L150H, L180H and the L220H are loaded with time saving features. One example of this is the new tilting cab which significantly improves service and maintenance access to help you work for longer and sustain productivity day in and day out.

Maintenance-free batteries

Two heavy-duty, maintenance-free 12V batteries in series provide a 24V electrical system. The batteries are located in a well-sealed compartment on the right side of the machine.



Lubrication system

The optional, automatic lubrication system controls greasing when the machine is in operation, resulting in more uptime and reduced maintenance. The operator can alter the lubrication cycle to suit the application.







Maintaining a smooth operation

Enjoy peace-of-mind for maximum machine uptime with the rear axle design. The sealed oscillation pins cradle keeps the grease in and the dirt out, keeping components greased for up to 8,000 hours so you can rely on reduced overall service time and costs.

Engine access

Electrically activated, the wide-opening engine hood allows quick and easy service access to the engine and components for maximum uptime.

Lift more with Volvo



Tilting cab

The cab can be tilted in two positions - 30° and 70° - for improved service and maintenance access. This leads to more uptime and increased machine availability.

Single lever

The optional, multi-functional joystick gives the operator simultaneous and precise control of the linkage.

Boom Suspension System (BSS)

The BSS boosts productivity by up to 20% by absorbing shock and reducing the bouncing and bucket spillage that occurs when operating at speed on rough terrain.



TP linkage

Volvo's unique Torque Parallel (TP) linkage delivers high breakout torque and excellent parallel movement through the entire lifting range.



OptiShift

Volvo's OptiShift technology reduces fuel consumption by up to 18%, increases operator comfort

and reduces stress in the drivetrain.

Attachments

Volvo's durable attachments have been purpose-built to deliver maximum productivity and long service life in combination with Volvo machines.

OLVC

Volvo cab

Volvo's industry-leading, certified ROPS/ FOPS cab features ergonomically placed controls, low internal noise levels, vibration protection and ample storage space.

Diesel Exhaust Fluid (DEF)

Volvo offers a total DEF solution that is quality assured, cost efficient and easily accessible. Contact your Volvo dealer for more information.

Easy service access

Electrically activated, wide-opening engine hood allows quick and easy service access to the engine compartment.

Volvo engine

Volvo's Tier 4 Final/Stage IV engine delivers high performance and low fuel consumption.



Powertrain

The ideally-matched, all-Volvo powertrain has been built to work together in perfect harmony - ensuring optimized performance.

Intelligent hydraulics

Volvo's load-sensing hydraulics supply power to the hydraulic functions according to demand, lowering fuel consumption.

APS/FAPS

Automatic Power Shift (APS) and Fully Automatic Power Shift (FAPS) ensure optimal operation by adjusting the machine gears automatically.

Adding value to your business.

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.



Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.









Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.



Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.





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PROFITABILITY

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Customer Support Agreements

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The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

FUEL CONSUMPTION

Volvo L150H, L180H, L220H in detail

Engine

V-ACT Stage IV/Tier 4F 13 lit	or 6-0	vlindo	r straight turb	achargod
diesel engine with 4 valves pe				
electonically controlled unit in				
cylinder liners and replacable				
throttle applications is transmi				
or the optional hand throttle.		loctric	any norm the t	inottic pedar
Air Cleaning: 2 stages				
Cooling system: Hydrostatic,	electi	ronical	ly controlled f	an and
intercooler of the air-to-air typ			<u> </u>	
L150H				
Engine				013J (Tier 4f)
Max power at	r/s (i	r/min)		21.7 (1 300)
SAE J1995 gross	k٧	/ / hp		220 / 299
ISO 9249, SAE J1349 net	k٧	//hp		220 / 299
Max torque at	r/s (r/min)		16.7 (1 000)
SAE J1995 gross	Nm	lb ft	1960	1446
ISO 9249, SAE J1349	Nm	lb ft	1957	1443
Economic working range		r/min	13.3-26.6	(800-1 600)
Displacement	I	gal	12.8	3.4
L180H				
Engine			C	013J (Tier 4f)
Max power at	r/s (i	r/min)	21.7-23.3 (1	300-1 400)
SAE J1995 gross	k٧	//hp		246 / 334
ISO 9249, SAE J1349 net	kV	//hp		245 / 333
Max torque at	r/s (r/min)		16.7 (1 000)
SAE J1995 gross	Nm	lb ft	2 030	1497
ISO 9249, SAE J1349 net	Nm	lb ft	2 024	11493
Economic working range		r/min	13.3-26.6	(800-1 600)
Displacement	I	gal	12.8	3.4
L220H				
Engine			C	013J (Tier 4f)
Max power at	r/s (r/min)	21.7-23.3 (1	300-1 400)
SAE J1995 gross	k٧	/ / hp		274 / 373
ISO 9249, SAE J1349 net	kV	//hp		273 / 371
Max torque at	r/s (r/min)		18.3 (1 100)
SAE J1995 gross	Nm	lb ft	2 231	1646
ISO 9249, SAE J1349 net	Nm	lb ft	2 220	1637
Economic working range		r/min	13.3-26.6	(800-1 600)
Displacement	I	gal	12.8	3.4
		-		



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 axle shafts with planetary hub reductions and nodular iron axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle. Optional: Limslip rear **L150H**

LISUR					
Transmission				Volvo HT	L 222C
	1st gear	km/h	mph	6.5	4.0
Maximum speed,	2nd gear	km/h	mph	12.5	7.8
forward/reverse	3rd gear	km/h	mph	26.0	16.2
	4th gear	km/h	mph	38.0	23.6
Measured with tires				26.5	R25 L3
Front axle/rear axle				Volvo/AWB 4	0B/40C
Rear axle oscillation \pm			ō		15
Ground clearance at 1	5° osc.	mm	in	610	24
L180H					
Transmission				Volvo HT	L 222C
	1st gear	km/h	mph	6.5	4.0
Maximum speed,	2nd gear	km/h	mph	12.5	7.8
forward/reverse	3rd gear	km/h	mph	26.0	16.2
	4th gear	km/h	mph	38.0	23.6
Measured with tires				26.5	R25 L3
Front axle/rear axle				Volvo/AWB 4	0B/40B
Rear axle oscillation \pm			0		15
Ground clearance at 1	5° osc.	mm	in	610	24
L220H					
Transmission				Volvo HT	L 307B
	1st gear	km/h	mph	7.0	4.3
Maximum speed,	2nd gear	km/h	mph	12.5	7.8
forward/reverse	3rd gear		mph	25.0	15.5
	4th gear	km/h	mph	38.0	23.6
Measured with tires				29.5	R25 L4
Front axle/rear axle				Volvo/AWE	3 50/41
Rear axle oscillation \pm			٥		15
Ground clearance at 1	5º 000	mm	in	600	23.6
Gibunu clearance at 1	0 080.			000	20.0

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. 24 Voltage V 2 x 12 V Batteries Battery capacity Δh 2×170

Dallery Capacity	AII	2 X 170
Cold cranking capacity, approx	A	1 000
Batteries	connected to	o postiv terminal
Alternator rating	W/A	2 280/80
Starter motor output	kW	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: Fully sealed, wet multi-disc brake built into the transmission. Applied by spring force and electro-hydraulically release dwith 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

Number of brake discs p	er wheel from	nt/rear	1/1
Accumulators	I	2x1.0	3x0.5
L180H			
Number of brake discs p	er wheel froi	nt/rear	1/1
Accumulators	I	2x1.0	1x0.5
L220H			
Number of brake discs p	er wheel froi	nt/rear	1/1
Accumulators	I	2x1.0	1x0.5
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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").

L150H

o break wi	
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2105	
	69
J2104	
	108
9	11.8
	16
	7.5
o break wi	ndow
2105	
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J2104	
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9	11.8
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2105	ndow 70 109 11.8
2105 J2104	ndow 70 109
	9 to break wi 12105 J2104

Volvo L150H, L180H, L220H in detail

Lift arm system

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

			L15	50H	L18	юн	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	31.0	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	

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 controlled by pilot pressure and electric servo (L150H) i.e. by a 2-spool pilot valve (L180H/L220H).

Lift function: The valve has three positions: raise, hold and lower position. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lifting height.

Tilt function: The valve has three functions including rollback, hold and dump. Inductive/magnetic automatic tilt can be adjusted to the desired bucket angle.

Cylinders: Double-acting cylinders for all functions.

Filter: Full flow filtra	tion th	rough 10) micr	on (al	osolut	e) filte	er cart	ridge.
			L15	50H	L18	BOH	L22	20H
Working pressure maximum, pump 1	MPa	bar	29	290	29	290	29	290
Flow	l/min	gal/min	180	47.5	217	57.3	252	66.8
at	MPa	bar	10	100	10	100	10	100
engine speed	r/	's(r/min)	32(1	900)	32(1	900)	32(1	900)
Working pressure maximum, pump 2	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/	's(r/min)	32(1	900)	32(1	900)	32(1	900)
Working pressure maximum, pump 3	MPa	bar	25	250	25	250	25	250
Flow	l/min	gal/min	77	20.3	77	20.3	77	20.3
at	MPa	bar	10	100	10	100	10	100
engine speed	r/	ˈs(r/min)	32(1	900)	32(1	900)	32(1	900)
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.

			5.0					
			L15	ЮН	L18	ЮН	L220	Н
Steering cylinders			2		2		2	
Cylinder bore	mm	in	100		100		100	
Rod diameter	mm	in	60		60		60	
Stroke	mm	in	390		525		525	
Working pressure	MPa	bar	21		21		21	
Maximum flow	l/min	gal/min	202		202		202	
Maximum articulation		±°	37		37		37	
Stroke	mm	in	452		480		455	

Service

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.

		L15	ЮН	L18	ЮН	L220H							
Fuel Tank	l gal	366	88.5	366	88.5	366	88.5						
DEF Tank	l gal	31	8.2	31	8.2	31	8.2						
Engine coolant	l gal	55	12.2	55	12.2	55	12.2						
Hydraulic oil tank	l gal	156	41.2	156	41.2	226	41.2						
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 /rear	l gal	46 /55	11.8 /14.5	46 /55	11.8 /14.5	77 /71	20.3 /18.8						

Specifications

es L150H, L180H: 26.5 R25 L3. Tires L220H: 29.5 R25 L4 Standard boom Long boom														
	L1				- -	20H	L1					20H		
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"		
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"		
mm ft in	480	1'7"	480	1'7"	530	1'9"	470	1'7"	490	1'7"	530	1'9"		
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"		
mm ft in	2 134	7'0"	2 134	7'0"	2 1 3 5	7'0"	2 157	7'1"	2 133	7'0"	2 1 3 3	7'0"		
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"		
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"		
٥		58		57		56		59		55		56		
۰ °		50		49		48		49		49		48		
٥		45		45		43		48		48		44		
0		48		48		47		53		53		49		
٥		66		71		65		61		63		63		
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"		
mm ft in	520	1'9"	570	1'10"	600	2'0"	640	2'1"	660	2'2"	680	2'3"		
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"		
mm ft in	2 960	9'9"	2 960	9'9"	3 150	10'4"	2 960	9'9"	2 960	9'9"	3 1 5 0	10'4"		
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"		
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"		
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"		
	mm ft in mm ft in mm ft in mm ft in mm ft in mm ft in o o o mm ft in mm ft in mm ft in mm ft in mm ft in mm ft in mm ft in	L1 mm ft in 7 070 mm ft in 3 550 mm ft in 3 580 mm ft in 2 134 mm ft in 2 134 mm ft in 3 920 mm ft in 4 340 ••• •• •• •• •• •• •• •• •• •• •• •• •	State Imm ft in 7 070 23'3" mm ft in 3 550 11'8" mm ft in 3 550 11'9" mm ft in 3 550 11'9" mm ft in 3 920 12'10" mm ft in 4 340 14'3" mm ft in 4 340 14'3" mm ft in 4 340 14'3" mm ft in 93 500 mm ft in 93 '37." mm ft in 520 1'9" mm ft in 2 980 76" mm ft in 2 980 99" mm ft in 3 510 11'6" mm ft in 3 510 11'6"	Staustreet Staustreet ILISOH ILI mm ft in 7 070 23'3" 7 190 mm ft in 3 550 11'8" 3 550 mm ft in 3 580 11'8" 3 580 mm ft in 3 580 11'8" 3 580 mm ft in 2 134 70" 2 134 mm ft in 3 920 1210" 4 060 mm ft in 3 400 14'3" mm ft in 4340 14'3"	Startwork LISOH L23'S" L1'8" mm ft in 3 550 11'8" 3 350 11'8" mm ft in 3 550 11'8" 3 550 11'8" 3 550 11'8" mm ft in 3 550 11'8" 3 550 11'8" 3 550 11'8" mm ft in 2 580 11'9" 3 580 11'9" 3 580 11'9" mm ft in 3 920 1210" 4 060 134" mm ft in 3 400 14'3" 4 70 14'8" mm ft in 3 400 14'3" 4 70 14'8" \cdot 3 400 550 50 50 49 \cdot 3 400 73.7" 430 57 50 \cdot 480 520 71 50 50 40 mm ft in 520 73.7" 131 05.1" mm ft in 520 76" 280 99"	Statistical Statis Statistical Statis Statistical Statistical Statistical Statisti	Statistical Solution Statin So	Statistical SolutionStatistical SolutionInt in 2 0 2'3' 1 180 H $L2 2 O H$ $L1$ mm ft in 3 55011'8' 3 55011'8'' 3 700 $12'2''$ 3 550mm ft in 3 55011'8'' 3 55011'8'' 3 700 $12'2''$ 3 500mm ft in 480 11'7'' 480 $11'7'''$ 500 $11'9''''''''''''''''''''''''''''''''''$	Standard colspan="6">Standard colspan="6">Standard colspan="6">Standard colspan="6">Standard colspan="6">Standard colspan="6">Standard colspan="6"ILISOH <th colspa<="" td=""><td>Statistication in the second second</td><td>Standard Event Subsection Set in Set</td><td>Standard Event Subsection Set in Section Set in S</td></th>	<td>Statistication in the second second</td> <td>Standard Event Subsection Set in Set</td> <td>Standard Event Subsection Set in Section Set in S</td>	Statistication in the second	Standard Event Subsection Set in Set	Standard Event Subsection Set in Section Set in S	

* 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 load: 7 700 kg (16,976 lb) 25 660 kg (56,571 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

	E1001	-, -		0,00 10				
				L150H		L180H	L220H	
Α	m ²	yd ²	3.1	3.7	3.5	4.2	4	4.8
В	mm	in	3 660	144.1	3 870	152.4	3 920	154.3
С	mm	in	2 1 1 0	83.1	2 1 5 0	84.6	2 270	89.4
D	mm	in	2 960	116.5	3 1 5 0	124.0	3 160	124.4
Е	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
Н	mm	in	4 990	196.5	5 1 7 0	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
Κ	mm	in	3 340	131.5	3710	146.1	3 940	155.1
L	mm	in	2 290	90.2	2 4 1 0	94.9	2 630	103.5
М	mm	in	9 680	381.1	9 980	392.9	10 380	408.7



Specifications

1150H

Tires 26.5 R25 L3				REHANDLING							GEN	ERAL	PURP	OSE		ROC	CK***	LIG MATI	iht Erial			
			ł		ł		ł		ł	<u>M</u>	ł		A		A		I	Turnin .	ØÊ	$\langle \cdot \rangle$	LO BO(
			4.0 (5.2 ST B(yd ³) E P	4.4 (5.8 STI BC	yd ³) E P	4.8 (6.3 STI BC	yd ³) E P	5.2 (6.8 STI B(yd ³) E P	4.0 (5.2 ST T S	yd ³) E P	4.4 (5.8 STI T S	yd ³) E P	-		(4.6 SP	yd ³) yd ³) N P EG		yd³) MP		
Volume, heaped ISO/SAE	m ³	yd ³	4.0	5.2	4.4	5.8	4.8	6.3	5.2	6.8	4.0	5.2	4.4	5.8	4.5	5.9	3.5	4.6	6.8	8.9	-	
Volume at 110% fill factor	m ³	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	5.0	6.5	3.9	5	7.5	9.8	-	
Static tipping load, straight	kg	lb	20 500	45,200	20 230	44,610	19 950	43,990	19 800	43,660	18 100	39,900	17 690	39,010	17 670	38,960	18 730	41,290	16 360	36,080	-3 550	-7,826
at 35° turn	kg	lb	18 320	40,390	18 050	39,810	17 780	39,200	17 630	38,880	16 190	35,700	15 780	34,800	15 760	34,760	16 730	36,890	14 520	32,010	-3 270	-7,209
at full turn	kg	lb	18 070	39,840	17 810	39,260	17 530	38,660	17 380	38,330	15 970	35,220	15 560	34,320	15 550	34,280	16 500	36,390	14 310	31,550	-3 230	-7,121
Breakout force	kN	lbf	201.3	45,250	191.7	43,090	183.2	41,190	182.7	41,070	202	45,340	192	43,220	184	41,460	188.0	42,270	140.0	31,480	9	2,023
A	mm	ft in	8 600	28'2"	8 680	28'6"	8 750	28'8"	8 750	28'9"	8 790	28'10"	8 860	29'1"	8 930	29'3"	8 850	29'0"	9 230	30'3"	520	1'8'
E	mm	ft in	1 230	4'1"	1 300	4'3"	1 360	4'6"	1 370	4'6"	1 400	4'7"	1 460	4'9"	1 520	5'0"	1 450	4'9"	1 790	5'10"	10	-0,4
H**)	mm	ft in	3 020	9'11"	2 970	9'9"	2 920	9'7"	2 920	9'7"	2 890	9'6"	2 850	9'4"	2 800	9'2"	2 870	9'5"	2 620	8'7"	570	1'10
L	mm	ft in	5 720	18'9"	5 770	18'11"	5 880	19'3"	5 870	19'3"	5 880	19'3"	5 990	19'8"	6 0 4 0	19'10"	5 970	19'7"	6 1 4 0	20'2"	570	1'10'
M**)	mm	ft in	1 220	4'0"	1 270	4'2"	1 320	4'4"	1 320	4'4"	1 360	4'5"	1 410	4'7"	1 450	4'9"	1 420	4'8"	1 700	5'7"	-20	-0,8
N**)	mm	ft in	1 800	5'11"	1 830	6'0"	1 860	6'1"	1 860	6'1"	1 880	6'2"	1 910	6'3"	1 930	6'4"	1 930	6'4"	1 960	6'5"	450	1'6
V	mm	in	3 200	125"	3 200	125"	3 200	125"	3 400	133"	3 230	127"	3 200	125"	3 000	118"	3 230	127"	3 200	125"	0	
a ₁ clearance circle	mm	ft in	14 640	48'0"	14 670	48'2"	14 700	48'3"	14 890	48'10"	14 750	48'5"	14 760	48'5"	14 600	47'11"	14 800	48'7"	14 940	49'0"	340	1'1
Operating weight	kg	lb	25 090	55,320	25 300	55,780	25 500	56,220	25 620	56,490	24 090	53,130	24 450	53,920	24 420	53,840	25 320	55820	24 920	54,950	410	904

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

**) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge measured at 45° dump angle. (Spade nose buckets at 42°.)

***) Measured with L5 tires

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration. Example: Sand and gravel. Fill factor ~ 105%. Density 1.6 t/m³. Result: The 4.0 m³ bucket carries 4.2 m³. For optimum stability always consult the bucket caloritien about

rt.

the	bucket	selec	tion	char

Material	Bucket	t fill, %		aterial ensity	bue	/SAE cket ume	-	tual ume
			t/m ³	lb/yd ³	m ³	yd ³	m ³	yd ³
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	\bigcirc	~ 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	\bigcirc	~ 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	\bigtriangledown	~ 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.

Supplemental Operating Data

Type of	Type of	ISO/SAE Bucket	L150							/m³ (lb/yd			
boom	bucket	volume	0, (13		1,0 (168) 36)	1,2 (202	2 24)	1, (23	4 61) (2	,6 598) (3	1,8 3035)	2,0 (3373)
	*Bu	4,4 m ³ (5.8 yd ³)									4,6 (6.0)	4,4	(5.8)
	Rehandling*	4,8 m ³ (6.3 yd ³)								5,0 (6.5	4,8	(6.3)	
E	Re	5,2 m ³ (6.8 yd ³)						5	,5 (7	.2) 5	2 (6.8)		
Standard boom	General purpose	4,0 m ³ (5.2 yd ³)								4,4 (5.	s)	4,0 (5.	2)
tanda	Ger purp	4,4 m ³ (5.8 yd ³)						4,8	3 (6.3	3)	4,4 (5.8)	
S	Rock	3,5 m³ (4.6 yd³)										35 (4.6)	3,3 (4.3
	Light material	6,8 m ³ (8.9 yd ³)	6,	8 (8.9)	ļ								
	dling*	4,0 m ³ (5.2 yd ³)								4,2	5.5)	4,0 (5.2)	
	Rehandling*	4,4 m ³ (5.8 yd ³)						4	I,6 (6	i.0)	4 (5.8)		
Long boom	General purpose	3,7 m ³ (4.8 yd ³)						4,	1 (5.	4)	3,7 (4.8	i)	
Lor	Rock	3,5 m ³ (4.6 yd ³)								3,5 (4	6) 3,	3 (4.3)	
	Light material	6,8 m ³ (8.9 yd ³)	6,8 (8.9)										
	Bucket fil 105% 1	l 00% 95%	Di	n-on									
				n-on									



					Standard	l boom					Long b	oom		
Tires 26.5 R2	5 L3		26.5 R2	25 L4	26.5 R	25 L5	775/65	R29 L3	26.5 R2	25 L4	26.5 R	25 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

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Tires 26.5 R25 L3					F	EHAN	IDLIN	G				GEN	ERAL	PURP	OSE		ROC	:K***	LIG MATI	iht Erial		
1103 2010 N20 20			ł	<u>N</u>	ł	<u>y</u>	ł		ł		ł		ł		ł	V	I		E		LOI BOO	
			(6.3 ST	m³ yd³) E P DE	5.2 (6.8 STI B(yd ³) E P	(7.2 ST		(7.6 ST	s m³ yd³) E P DE	4.4 (5.8 ST T S	yd³) E P	4.6 (6.0 STI T S	yd ³) E P	4.8 (6.3 ST T S	yd ³) E P	(5.5 SP	m³ yd³) N P EG	(10.2	m³ 2 yd³) 1 P		
Volume, heaped ISO/SAE	m ³	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	-	
Volume at 110% fill factor	m ³	уd³	5.3	6.9	5.7	7.5	6.1	7.9	6.4	8.3	4.8	6.3	5.1	6.6	5.3	6.9	4.6	6	8.6	11.2	-	
Static tipping load, straight	kg	lb	23 670	52,190	23 520	51,860	23 350	51,480	23 210	51,180	21 540	47,500	21 560	47,540	21 360	47,090	22 250	49,060	20 430	45,040	-3 820	-842
at 35° turn	kg	lb	21 010	46,330	20 860	46,000	20 700	45,630	20 570	45,350	19 1 4 0	42,200	19 150	42,230	18 960	41,810	19 750	43,560	18 070	39,850	-3 480	-7680
at full turn	kg	lb	20 710	45,660	20 560	45,330	20 390	44,970	20 260	44,680	18 860	41,600	18 880	41,620	18 690	41,200	19 470	42,930	17 800	39,260	-3 450	-759
Breakout force	kN	lbf	224.9	50,570	224.2	50,420	216.2	48,600	210.0	47,230	235.9	53,050	236.0	53,060	226.4	50,910	212.6	47,790	173.5	39,000	3.9	870
A	mm	ft in	8 890	29'2"	8 890	29'2"	8 960	29'5"	9 0 1 0	29'7"	9 000	29'6"	9 000	29'6"	9 0 7 0	29'9"	9 1 4 0	30'0"	9 360	30'8"	470	1'6
E	mm	ft in	1 430	4'8"	1 430	4'8"	1 490	4'11"	1 540	5'1"	1 530	5'0"	1 530	5'0"	1 590	5'3"	1 650	5'5"	1 860	6'1"	20	0,6
H**)	mm	ft in	3 060	10'0"	3 050	10'0"	3 010	9'11"	2 970	9'9"	2 990	9'10"	2 990	9'10"	2 940	9'8"	2 910	9'7"	2 690	8'10"	500	1'7
L	mm	ft in	6 010	19'9"	6 0 1 0	19'9"	6 040	19'10"	6 1 1 0	20'0"	6 1 3 0	20'1"	6 1 7 0	20'3"	6 180	20'3"	6 320	20'9"	6 300	20'8"	500	1'7
M**)	mm	ft in	1 330	4'4"	1 330	4'4"	1 370	4'6"	1 410	4'8"	1 420	4'8"	1 420	4'8"	1 460	4'10"	1 520	5'0"	1 610	5'3"	20	0,6
N**)	mm	ft in	1 960	6'5"	1 960	6'5"	1 990	6'6"	2 000	6'7"	2 020	6'7"	2 020	6'7"	2 040	6'8"	2 080	6'10"	2 050	6'9"	410	1'4
V	mm	in	3 200	125"	3 400	133"	3 400	133"	3 400	133"	3 200	125"	3 200	125"	3 200	125"	3 230	127"	3 400	133"	-	
a ₁ clearance circle	mm	ft in	14 800	48'7"	14 990	49'2"	15 010	49'3"	15 040	49'4"	14 850	48'9"	14 850	48'9"	14 880	48'10"	14 960	49'1"	15 220	49'11"	-	11
Operating weight	kg	lb	28 070	61,890	28 190	62,160	28 290	62,380	28 360	62,540	27 020	59,590	27 060	59,670	27 120	59,800	28 440	62,700	27 470	60,570	270	590

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

**) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge measured at 45° dump angle. (Spade nose buckets at 42°.)

***) Measured with L5 tires

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration. Example: Sand and gravel. Fill factor ~ 105%. Density 1.6 t/m³. Result: The 4.6 m³ bucket carries 4.8 m³. For optimum stability always consult the bucket calertine other.

the bucket selection chart

Material	Bucke	t fill, %		aterial ensity	bue	/SAE cket ume	-	tual ume
			t/m ³	lb/yd ³	m ³	yd ³	m ³	yd ³
Earth/Clay	~ 110	\bigcirc	~ 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	\bigcirc	~ 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	\bigcirc	~ 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	\bigcirc	~ 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.

Supplemental Operating Data

Type of	Type of	ISO/SAE	L180							t/m³ (lb/yd				
boom	bucket	Bucket volume	0, (13		1, (16	,0 86)	1 (20	2 24)	1 (23		,6 (98) (1,8 3035)	2 (33	,0 (73)
	*BL	5,2 m ³ (6.8 yd ³)								5,	5 (7.2)	5,2	(6.8)	
	Rehandling*	5,5 m ³ (7.2 yd ³)								5,8 (7.6)	5,5	(7.2)		
_	Reh	5,8 m ³ (7.6 yd ³)							6,1	(8.0)	5,8 (7.6)			
poon	e al	4,4 m ³ (5.8 yd ³)								4,8	(6.3)	Ļ I	4,4 (5	8)
Standard boom	General purpose	4,6 m ³ (6.0 yd ³)								5,1 (6	7)	4,6	(6.0)	
Stal		4,8 m ³ (6.3 yd ³)								5,3 (6.9)		4,8 (6.3	3)	
	Rock	4,2 m ³ (5.5 yd ³)									4,	2 (5.5)		4,0 (5.)
	Light material	7,8 m ³ (10.0 yd ³)	7,8 (10.0)	Þ									
	dling*	4,8 m ³ (6.3 yd ³)								5,0 (6.5)	48 (6.	3)	
	Rehandling*	5,2 m ³ (6.8 yd ³)							5,5	(7.2)	5,2 (6.8)			
Long boom	General purpose	4,4 m ³ (5.8 yd ³)							4,8	(6.3)	4,4 (5.8)		
Lor	Rock	4,2 m ³ (5.5 yd ³)								4,2	(5.5)	4,0 (5.:	2)	
	Light material	7,8 m ³ (10.0 yd ³)	7,8 (10.0)											
	Bucket fi	II 00% 95%												
			Pir	n-on										



					Standard	boom					Long b	oom		
Tires 26.5 R2	5 L3		26.5 R2	25 L4	26.5 R	25 L5	775/65 F	29 L3	26.5 R2	5 L4	26.5 R2	25 L5	775/65 R	29 L3
Width over tires	mm	in	+5	+0.2	+30	+1.2	+130	+5.1	+5	+0.2	+30	+1.2	+130	+5.1
Ground clearance	mm	in	+18	+0.7	+40	+1.6	+10	+0.4	+18	+0.7	+40	+1.6	+10	+0.4
Tipping load, full turn	kg	lb	+280	+617	+770	+30.3	+600	+23.6	+250	+551	+760	+29.9	+530	+20.9
Operating weight	kg	lb	+400	+882	+1 050	+2315	+920	+36.2	+400	+882	+1 050	+2315	+1 120	+44.1

Specifications

L220H

Tires 29.5 R25 L3					F	EHAN	IDLING	G				GEN	ERAL	PURP	OSE		ROC	CK***	LIG MATI	iHT ERIAL		
			Į	ß	ł	<u>y</u>	ł		ł		ł		ł	V	ł	V		A MAN	ł	Ø	LOI BOO	
			(7.3 ST	i m ³ yd ³) E P DE	5.9 (7.7 STI B(yd³) E P	6.3 (8.2 STI B(yd³) E P	ST	yd³)	5.2 (6.8 ST T S	yd³) E P	5.6 (7.3 ST T S	yd ³) E P	4.5 (5.9 SPI T S	yd³)	(6.5 SP) m ³ yd ³) N P iEG	(10.7	an ³ 7 yd ³) 1 P		
Volume, heaped ISO/SAE	m ³	yd ³	5.6	7.3	5.9	7.7	6.3	8.2	4.9	6.4	5.2	6.8	5.6	7.3	4.5	5.9	5.0	6.5	8.2	10.7	0	
Volume at 110% fill factor	m ³	yd ³	6.2	8.1	6.5	8.5	6.9	9.1	5.4	7	5.7	7.5	6.2	8.1	5.0	6.5	5.5	7.2	9.0	11.8	0	
Static tipping load, straight	kg	lb	25 270	55,710	25 140	55,430	24 960	55,030	23 960	52,840	23 900	52,700	23 600	52,030	24 900	54,900	23 770	52,410	22 820	50,310	-2 890	-6370
at 35° turn	kg	lb	22 420	49,430	22 290	49,160	22 120	48,770	21 280	46,930	21 220	46,790	20 940	46,160	22 150	48,840	21 090	46,500	20 190	44,510	-2 650	-5840
at full turn	kg	lb	22 090	48,720	21 970	48,440	21 800	48,060	20 980	46,250	20 910	46,110	20 630	45,500	21 840	48,150	20 780	45,830	19 890	43,850	-2 620	-5780
Breakout force	kN	lbf	228.9	51,460	223.1	50,150	215.0	48,330	255.9	57,530	244.5	54,990	229.0	51,490	211.5	47,560	196.5	44,190	190.8	42,900	3.4	670
A	mm	ft in	9 270	30'5"	9 310	30'7"	9 380	30'9"	9 310	30'7"	9 350	30'8"	9 460	31'0"	9 580	31'5"	9 730	31'11"	9 580	31'5"	310	1
E	mm	ft in	1 470	4'10"	1 510	4'11"	1 570	5'2"	1 510	4'11"	1 540	5'1"	1 640	5'5"	1 730	5'8"	1 860	6'1"	1 750	5'9"	-30	-0,6
H**)	mm	ft in	3 160	10'4"	3 1 3 0	10'3"	3 080	10'1"	3 1 3 0	10'3"	3 1 1 0	10'3"	3 040	9'11"	3 030	9'11"	2 930	9'7"	2910	9'7"	370	1'2'
L	mm	ft in	6 260	20'6"	6 290	20'7"	6 370	20'11"	6 370	20'11"	6 4 4 0	21'2"	6 4 4 0	21'1"	6 450	21'2"	6 5 1 0	21'4"	6 450	21'2"	360	1'2'
M**)	mm	ft in	1 400	4'7"	1 440	4'9"	1 480	4'10"	1 430	4'8"	1 470	4'10"	1 560	5'1"	1 700	5'7"	1 800	5'11"	1 610	5'3"	-30	-0,6
N**)	mm	ft in	2 100	6'11"	2 1 2 0	7'0"	2 150	7'1"	2 1 2 0	6'11"	2 1 6 0	7'1"	2 200	7'3"	2 250	7'5"	2 300	7'6"	2 180	7'2"	270	10
V	mm	in	3 400	133"	3 400	133"	3 400	133"	3 4 3 0	135"	3 400	133"	3 400	133"	3 430	135"	3 430	135"	3 700	145"	-	
a ₁ clearance circle	mm	ft in	15 570	51'1"	15 590	51'2"	15 620	51'3"	15 610	51'3"	15 610	51'3"	15 670	51'5"	15 770	51'9"	15 850	52'0"	16 020	52'7"	-	
Operating weight	kg	lb	31 950	70,440	32 020	70,610	32 130	70,850	31 160	68,710	31 190	68,770	31 260	68,920	32 710	72,130	33 130	73,050	31 660	69,800	380	860

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

**) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge measured at 45° dump angle. (Spade nose buckets at 42°.)

***) Measured with L5 tires

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, bucket full factor. The actual bucket volume is often larger than the faced 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	Bucke	t fill, %		aterial ensity	bue	/SAE cket ume		tual ume
			t/m ³	lb/yd ³	m ³	yd ³	m ³	yd ³
Earth/Clay	~ 110	\bigcirc	~ 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	\bigcirc	~ 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	\bigcirc	~ 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	\bigcirc	~ 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.

L220H 0,8 (1349 Material density: t/m³ (lb/yd³) 1,2 1,4 1,6 (2024) (2361) (269 ISO/SAE Bucket volume Type o 1,4 (23¢ 1,8 (3035 5,9 (7.7) 5,6 (7.3 5,6 m³ (7.3 yd³ ndling* 5,9 m³ (7.7 yd³) 6,2 (8.1) \$,9 (7.7) Reha 6,3 m³ (8.2 yd³) (8.6) 6.3 (8.2) Standard boom 4,9 m³ (6.4 yd³) 5,4 (7.1) 4,9 (6.4) General purpose 5,2 m³ (6.8 yd³) 5,7 (7.5) 5,2 (6.8) 5,6 m³ (7.3 yd³) 6,2 (8. 5.6 (7.3) 4,5 m³ (5.9 yd³) 5 (5.9) 4,3 Rock 5,0 m³ (6.5 yd³) 5,0 (6.5) 5,3 (6.9) Light 8,2 m³ 10.7 yd³) 8,2 (10.7) Rehandling* 5,6 m³ (7.3 vd³) 5,9 (7.7) 5,6 (7.3) 5,9 m³ (7.7 yd³) 6,2 (8.1) 5,9 (7.7) General Long boon 4,9 m³ (6.4 yd³) 5.4 (7.1) 4,9 (6.4) Rock 4,5 m³ (5.9 yd³) 4,5 (5.9) 4,3 (5.9) Light 8,2 m³ 10.7 yd^a 3,2 (10.7) Bucket fill 110% 105% 100% 95% Pin-on

* Including counterweight

How to read bucket fill factor

					Standard	boom					Long b	oom		
Tires 29.5 R2	25 L4		29.5 R25	5 L3	29.5 R2	5 L5	875/65 R	29 L4	29.5 R25	5 L3	29.5 R2	5 L5	875/65 R	29 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

Supplemental Operating Data

Equipment

STANDARD EQUIPMENT

Image: Service and maintenance Engine oil remote drain and fill • Transmission 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 • Engine • Exhaust after-treatment system • Three stage air cleaner, pre-cleaner, primary and secondary filter • Two stage air cleaner, pre-cleaner, primary and secondary filter • Indicator for coolant level • Preheating of induction air • Fuel pre-filter with water trap • Fuel filter • Crankcase breather oil trap • Electrical system • 24 V, pre-wired for optional accessories • Alternator 24V/80A/2280W • Battery disconnect switch • Fuel gauge • Hour meter • Electrical system • Instrument cluster: • Fuel level • Diese
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 • Exhaust after-treatment system • Three stage air cleaner, pre-cleaner, primary and secondary filter • Two stage air cleaner, pre-cleaner, primary and secondary filter • Indicator for coolant level • Preheating of induction air • Fuel pre-filter with water trap • Fuel pre-filter with water trap • Exterior radiator air intake protection • Electrical system • 24 V, pre-wired for optional accessories • Alternator 24V/80A/2280W • Battery disconnect switch • Fuel gauge • Hour meter • Electrical system • Instrument cluster: • Fuel level • Diesel Exhaust Fluid/AdBlue level • Transmission temperature •
Lubrication manifolds, ground accessible • • Pressure check connections: transmission and hydraulic, quick-connects • • Tool box, lockable • • Engine • • • Exhaust after-treatment system • • • Three stage air cleaner, pre-cleaner, primary and secondary filter • • • Two stage air cleaner, pre-cleaner, primary and secondary filter • • • Preheating of induction air • • • • Fuel pre-filter with water trap • • • • • Crankcase breather oil trap •
Pressure check connections: transmission and hydraulic, quick-connects • Tool box, lockable • Exhaust after-treatment system • Three stage air cleaner, pre-cleaner, primary and secondary filter • Two stage air cleaner, pre-cleaner, primary and secondary filter • Indicator for coolant level • Preheating of induction air • Fuel pre-filter with water trap • Fuel filter • Crankcase breather oil trap • Exterior radiator air intake protection • 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 • Dissel Exhaust Fluid/AdBlue level • Transmission temperature • Instrument lighting • Uighting: • Twin halogen front headlights with high and low beams Parking lights </td
hydraulic, quick-connects • Tool box, lockable • Engine • Exhaust after-treatment system • Three stage air cleaner, pre-cleaner, primary and secondary filter • Two stage air cleaner, pre-cleaner, primary and secondary filter • Indicator for coolant level • Preheating of induction air • Fuel pre-filter with water trap • Crankcase breather oil trap • Exterior radiator air intake protection • 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 • Coloant temperature • Coolant temperature • Contronic monitoring system • Monitoring and logging of machine data •
Tool box, lockable • • Engine • • Exhaust after-treatment system • • Three stage air cleaner, pre-cleaner, primary and secondary filter • • Two stage air cleaner, pre-cleaner, primary and secondary filter • • Indicator for coolant level • • • Preheating of induction air • • • Fuel pre-filter with water trap • • • Fuel pre-filter with water trap • • • Fuel filter • • • • Fuel system • • • • 24 V, pre-wired for optional accessories • • • • Battery disconnect switch • • • • • Fuel gauge • • • • • • Hour meter • • • • • • Instrument cluster: Fuel level • • • • • Instrument lighting 1 <td< td=""></td<>
Engine Exhaust after-treatment system • Three stage air cleaner, pre-cleaner, primary and secondary filter Two stage air cleaner, pre-cleaner, primary and secondary filter Indicator for coolant level Preheating of induction air Fuel pre-filter with water trap Fuel pre-filter with water trap Crankcase breather oil trap Exterior radiator air intake protection Exterior radiator air intake protection Etertrical 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 Coolant temperature Coolant temperature Coolant temperature Contronic monitoring system Monitoring and logging of machine data Contronic display Fuel consumption Duiseel Exhaust Fluid/AdBlue consumption Monitoring and logging of machine data Contronic disp
Exhaust after-treatment system • • Three stage air cleaner, pre-cleaner, primary and secondary filter • • Indicator for coolant level • • Preheating of induction air • • Fuel pre-filter with water trap • • Fuel pre-filter with water trap • • Fuel filter • • Crankcase breather oil trap • • Exterior radiator air intake protection • • 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 • • Colube brake and tail lights • • Double brake and tail l
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Preheating of induction air • • Fuel pre-filter with water trap • • Fuel filter • • Fuel filter • • Crankcase breather oil trap • • Exterior radiator air intake protection • • 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 • • • Colant temperature • • • Duble brake and tail lights • • • Turn signals with flashing hazard light function • • • Monitoring and log
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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) • • • Contronic monitoring system • • • • Monitoring and logging of machine data • • • • <t< td=""></t<>
Alternator 24V/80A/2280W • • Battery disconnect switch • • Fuel gauge • • Hour meter • • Electric horn • • Instrument cluster: • • Fuel 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) • • Contronic monitoring system • • • Monitoring and logging of machine data • • • Contronic display • • • • Fuel consumption • • • • Diesel Exhaust Fluid/AdBlue consumption • • <t< td=""></t<>
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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) • • Contronic monitoring system Monitoring and logging of machine data Contronic display • • • Fuel consumption • • • • Diesel Exhaust Fluid/AdBlue consumption • • • Diesel Exhaust Fluid/AdBlue consumption • • • Test function for warning and indicator lights • • • Brake test • • • •
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) • • Contronic monitoring system • • • • Monitoring and logging of machine data • • • Contronic display • • • • Fuel consumption • • • • Diesel Exhaust Fluid/AdBlue consumption • • • Diesel Exhaust Fluid/AdBlue consumption • • • Ambient temperature • • • • Clock
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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) 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 • •
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Turn signals with flashing hazard light function Halogen work lights (2 front and 2 rear) 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 •
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Contronic display • • Fuel consumption • • Diesel Exhaust Fluid/AdBlue consumption • • Ambient temperature • • Clock • • Test function for warning and indicator lights • • Brake test • •
Fuel consumption • • • Diesel Exhaust Fluid/AdBlue consumption • • • Ambient temperature • • • Clock • • • Test function for warning and indicator lights • • • Brake test • • • •
Diesel Exhaust Fluid/AdBlue consumption • • • Ambient temperature • • • Clock • • • Test function for warning and indicator lights • • • Brake test • • • •
Ambient temperature••Clock••Test function for warning and indicator lights••Brake test••
Clock • • • Test function for warning and indicator lights • • • Brake test • •
Brake test • •
The first second burners for a second
Test function, sound level at max fan speed • • •
Warning and indicator lights:
Battery charging • • • • • • • •
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
Engine coolant level Transmission oil level
Engine coolant level
Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction
Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication:
Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication: High engine coolant temperature
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
Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication: High engine colant temperature High engine oil temperature • • •

	L150H	L180H	L220
Contronic monitoring system			
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	•	•	•
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	•	•	
Lock-up first gear	•	•	•
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 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	•	•	•
External equipment Orange hand rails	•	•	•
Fenders, front and rear	•	•	•
Viscous cab mounts	•	•	•
Rubber engine and transmission mounts	•	•	•
Frame, joint lock	•	•	•
	•	•	•
Engine compartment			
Engine compartment Radiator grille	•	•	•
	•	•	:

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	•	•	•
Engine			
Air pre-cleaner, cyclone type	•	•	•
Air pre-cleaner, oil-bath type	•	•	•
Air pre-cleaner, turbo type	•	•	•
Engine auto 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	•	•	•
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, audible, multi-frequency	•	•	•
Reverse warning light, strobe lighting	•	•	•
Shortened headlight support brackets	•	•	•
Side marker lamps	•	•	
Warning beacon LED	•	•	•
Working lights halogen, attachments	•	•	•
Working lights LED, attachments	•	•	•
Working lights on cab halogen, front and rear	•	•	•
Working lights on cab halogen, rear			
LED Head Light	•	•	•
Working lights, on cab LED, front and rear	•	•	•
Working lights, on cab LED, rear			
Working lights, rear in grille, 2 LED lamps	•	•	•
Working lights, front above head lamps, 2 LED lamps	•	•	•
Taillight, LED lamp	•	•	•
Electrical distribution unit 24 volt	•	•	•
Load Assist	•	•	•
Radar detect system	•	•	
Jump start connector, NATO-Type	•	•	
Jump start connector, NATO-Type		-	

	L150H	L180H	L220
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	•	•	•
Drivetrain			
OptiShift transmission with Lock-up RBB			
Diff lock front 100%, Limited Slip rear	•	•	•
Speed limiter	•	•	•
Wheel/axle seal guards	•	•	•
Brake system			
Oil cooler and filter front & rear axle	•	•	•
Stainless steel, brake lines	•	•	
Hydraulic system			
Boom suspension system	•	•	•
Separate attachment locking	•	•	•
Arctic kit, attachment locking hoses			
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	•	•	•
Hydraulic Constant Flow Control with detent for 3rd function			
Single lever control, hydraulics 2 functions	•	•	•
Single lever control, hydraulics 3 functions	•	•	•
Single lever control, hydraulics 4 functions	•	•	•
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	•	•	•
Mudguards, full cover wideners and prot. Included			
induguards, full cover wideners and prot. Included			
Long boom	•	•	•

	L150H	L180H	L220H
Protective equipment			
Belly guard front	•	•	•
Belly guard rear	•	•	•
Cover plate, heavy-duty, front frame	•	•	•
Cover plate, rear frame	•	•	•
Cover plate, front/rear axle			
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	•	•	
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, slow moving vehicle			
Sign, 50 km/h	•		
Tires			
26.5 R25	•	•	
775/65 R29	•	•	
29.5 R25			•
875/65 R29			•
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

Long boom

Load Assist

Fire suppression system



Comfort Drive Control



Single lever control



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.

Radar detect system



Volvo Construction Equipment