

# L150H, L180H, L220H

Volvo Wheel Loaders 24.4-34.5 t 299-373 hp



# 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 industry experts. 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.







































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## 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)

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

#### Intelligent hydraulics

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



#### 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.

#### 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.

#### Cab air filtar

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.



#### 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 suspension

The viscous cab suspension reduces vibration and noise, increasing operator comfort and performance. The spring added into the mounts also improves shock absorption to increase productivity.





## 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 solution

The combination of tires, Boom Suspension System and additional counterweight means that you can fit a larger rehandling bucket to the machine, resulting in increased productivity in rehandling applications.









#### 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, slag handling and waste handling.

## Revolutionary reliability.

Featuring a premium Volvo engine 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 engine delivers high performance and low fuel consumption. The water cooled turbocharger increases engine life and performance.





#### Contronic and electronic systems

The machine's electronics support preventive maintenance and diagnostics for maximum uptime. Waterproof sealed connectors protect your machine's reliability and increase its longevity.

#### Cooling on demand

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 circulation

Both the front and the rear axle feature an axle oil circulation feature, which allows the axle oil to circulate and cool inside the axle – protecting components. The optional axle oil cooling system cools axles and can reduce oil changing intervals.



# 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.

#### Grouped and ground level greasing points

The ground level, grouped greasing points makes servicing and maintaining your machine quick and easy. The optional, automatic lubrication system controls greasing when the machine is in operation for more uptime and reduced maintenance.





#### 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.

machines.



15 14

Volvo's load-sensing hydraulics supply power

to the hydraulic functions according to demand, lowering fuel consumption.

## 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**

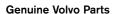
Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.

#### CareTrack

CareTrack gives you access to a wide range of machine monitoring information designed to save you time and money. Reduce fuel costs, optimize machine and operator performance and proactively manage service and maintenance to maximize uptime.







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.



## Volvo L150H, L180H, L220H in detail.

800-1 600

12.8

#### **Engine**

V-ACT Stage IIIA, 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.

Economic working range

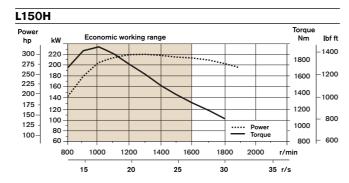
Displacement

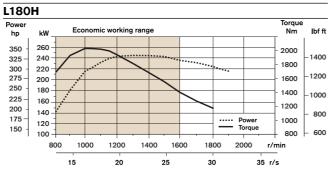
Cooling system: Hydrostatic, electronically controlled fan and intercooler of the air-to-air type.

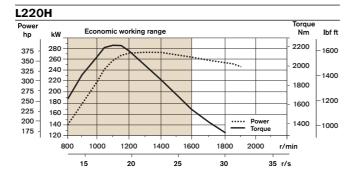
E	Engi	ne
	_	

L150H		
Engine		D13E
Max power at	r/s (r/min)	21.7 (1 300)
SAE J1995 gross	kW / hp	220 / 299
ISO 9249, SAE J1349 net	kW / hp	220 / 299
Max torque at	r/s (r/min)	16.7 (1 000)
SAE J1995 gross	Nm	1 960
ISO 9249, SAE J1349	Nm	1 957
Economic working range	r/min	800-1 600
Displacement	1	12.8
L180H		
Engine		D13E
Max power at	r/s (r/min)	21.7-23.3 (1 300-1 400)
SAE J1995 gross	kW / hp	246 / 334
ISO 9249, SAE J1349 net	kW / hp	245 / 333
Max torque at	r/s (r/min)	16.7 (1 000)
SAE J1995 gross	Nm	2 030
ISO 9249, SAE J1349 net	Nm	2 024
Economic working range	r/min	800-1 600
Displacement	I	12.8
L220H		
Engine		D13E
Max power at	r/s (r/min)	21.7-23.3 (1 300-1 400)
SAE J1995 gross	kW / hp	274 / 373
ISO 9249, SAE J1349 net	kW / hp	273 / 371
Max torque at	r/s (r/min)	18.3 (1 100)
SAE J1995 gross	Nm	2 231
ISO 9249, SAE J1349 net	Nm	2 220

r/min







#### 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

Transmission			Volvo HTL 222C
	1st gear	km/h	6.5
Maximum speed,	2nd gear	km/h	12.5
forward/reverse	3rd gear	km/h	26
	4th gear	km/h	38
Measured with tires			26.5 R25 L3
Front axle/rear axle			Volvo/AWB 40B/40C
Rear axle oscillation ±		0	15
Ground clearance at 1	5° osc.	mm	610
I 180H			

#### L180H

	1st gear	km/h	6.5
Maximum speed,	2nd gear	km/h	12.5
forward/reverse	3rd gear	km/h	26
	4th gear	km/h	38
Measured with tires			26.5 R25 L3
Front axle/rear axle			Volvo/AWB 40B/40B
Rear axle oscillation ±		0	15
Ground clearance at 15° osc.		mm	610
L220H			
L220H Transmission			Volvo HTL 307B
	1st gear	km/h	Volvo HTL 307B
	1st gear 2nd gear	km/h	Volvo HTL 307B 7 12
Transmission			7
Transmission  Maximum speed,	2nd gear	km/h	7 12
Transmission  Maximum speed,	2nd gear 3rd gear	km/h km/h	7 12 25.5

#### **Electrical system**

Rear axle oscillation ±

Ground clearance at 15° osc.

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.

mm

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	2 x 170
Cold cranking capacity, approx	Α	1 000
Batteries	conne	ected to 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.

Number of brake discs per wheel fi	ront/rear		1/1
Accumulators	1	2x1.0	3x0.5
L180H			
Number of brake discs per wheel fi	ront/rear		1/1
Accumulators	I	2x1.0	1x0.5
L220H			
Number of brake discs per wheel fi	ront/rear		2/1
Accumulators	I	2x1.0	1x0.5

Volvo HTL 222C

**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

Emergency exit: Use emergency hammer to break window				
Sound level in cab according to ISO 6396/SAE J2105				
LpA	dB(A)	69		
External sound level	according to ISO 6395/SAE J2104	4		
LwA	dB(A)	108		
Ventilation	m³/min	9		
Heating capacity	kW	16		
Air conditioning (opt	tional) kW	7.5		
11000				

#### L180H

15

600

Emergency exit: Use emergency hammer to break window					
Sound level in cab according to ISO 6396/SAE J2105					
LpA	dB(A)	70			
External sound level a	according to ISO 6395/SAE J210	04			
LwA	dB(A)	108			
Ventilation	m³/min	9			
Heating capacity	kW	16			
Air conditioning (option	onal) kW	7.5			
L220H					

Emergency exit:	Use emergency hammer to bre	eak window
Sound level in cab acco	ording to ISO 6396/SAE J210	5
LpA	dB(A)	70
External sound level acc	ording to ISO 6395/SAE J210	04
LwA	dB(A)	109
Ventilation	m³/min	9
Heating capacity	kW	16
Air conditioning (options	al) kW	7.5

## 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.

	L150H	L180H	L220H
Lift cylinders	2	2	2
Cylinder bore mm	160	180	190
Piston rod diameter mm	90	90	90
Stroke mm	784	788	768
Tilt cylinder	1	1	1
Cylinder bore mm	220	240	250
Piston rod diameter mm	110	120	120
Stroke mm	452	480	455

**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

**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

<b>Filter:</b> Full flow filtration through 10 micron (absolute) filter cartridge.					
		L150H	L180H	L220H	
Working pressure maximum, pump 1	MPa	29	29	29	
Flow	l/min	180	217	253	
at	MPa	10	10	10	
engine speed	r/s(r/min)	32(1 900)	32(1 900)	32(1 900)	
Working pressure maximum, pump 2	MPa	31	31	31	
Flow	l/min	202	202	202	
at	MPa	10	10	10	
engine speed	r/s(r/min)	32(1 900)	32(1 900)	32(1 900)	
Working pressure maximum, pump 3	MPa	25	25	25	
Flow	l/min	77	77	77	
at	MPa	10	10	10	
engine speed	r/s(r/min)	32(1 900)	32(1 900)	32(1 900)	
Pilot system, working pressure	MPa	3.5	3.5	3.5	
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	100	100	100
Rod diameter	mm	60	60	60
Stroke	mm	390	525	525
Working pressure	MPa	21	21	21
Maximum flow	l/min	188	188	191
Maximum articulation	±°	37	37	37
Stroke	mm	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.

	L150H	L180H	L220H
Fuel Tank I	366	366	366
Engine coolant I	55	55	55
Hydraulic oil tank	156	156	226
Transmission oil	48	48	48
Engine oil	50	50	50
Axle oil front/rear	46/55	46/55	77/71

## Specifications.

Tires L150H, L180H: 26.5 R25 L3. Tires L220H: 29.5 R25 L3  Standard boom Long boom											
		L150H	L180H	L220H	L150H	L180H	L220H				
В	mm	7 070	7 190	7 480	7 570	7 620	7 800				
С	mm	3 550	3 550	3 700	3 550	3 550	3 700				
D	mm	480	480	530	470	490	530				
F	mm	3 580	3 580	3 730	3 570	3 590	3 730				
G	mm	2 134	2 134	2 135	2 157	2 133	2 133				
J	mm	3 920	4 060	4 230	4 490	4 560	4 600				
K	mm	4 340	4 470	4 660	4 900	4 970	5 020				
0	0	58	57	56	59	55	56				
Pmax	0	50	49	48	49	49	48				
R	0	45	45	43	48	48	44				
R <sub>1</sub> *	0	48	48	47	53	53	49				
S	0	66	71	65	61	63	63				
T	mm	93	131	119	149	207	121				
U	mm	520	570	600	640	660	680				
Χ	mm	2 280	2 280	2 400	2 280	2 280	2 400				
Υ	mm	2 960	2 960	3 150	2 960	2 960	3 150				
Z	mm	3 510	3 810	4 050	3 960	4 180	4 380				
$a_{2}$	mm	6 790	6 790	7 100	6 790	6 790	7 100				
a <sub>3</sub>	mm	3 820	3 820	3 960	3 820	3 820	3 960				
a <sub>4</sub>	±°	37	37	37	37	37	37				

\* Carry position SAE

Bucket: L150H: 4.0 m3 GP STE P T SEG L180H: 4.6 m³ GP STE PT SEG L220H: 5.2 m3 GP STE PT SEG

L150H Sales code: WLA80713

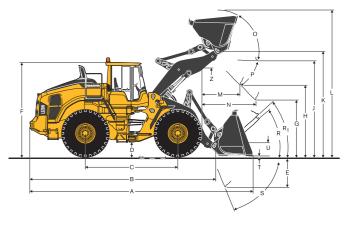
Operating weight (incl. logging cw 1 140 kg): 25 660 kg Operating load: 7 700 kg

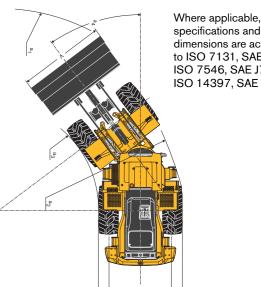
L180H Sales code: WLA80027

Operating weight (incl. logging cw 1 140 kg): 28 470 kg Operating load: 8 710 kg

**L220H** Sales code: WLA80852

Operating weight (incl. logging cw 870 kg): 32 810 kg Operating load: 10 080 kg

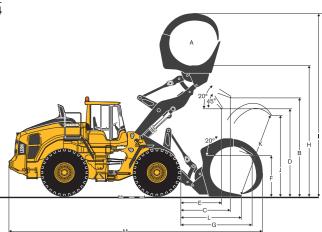




specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.

Tires L150H, L180H: 775/65 R29 L3	Tires L220H: 875/65 R29 L4
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		L150H	L180H	L220H
Α	m <sup>2</sup>	3.1	3.5	4
В	mm	3 660	3 870	3 920
С	mm	2 110	2 150	2 270
D	mm	2 960	3 150	3 160
Е	mm	1 650	1 720	1 780
F	mm	1 630	1 700	1 640
G	mm	2 930	3 040	3 230
Н	mm	4 990	5 170	5 350
I	mm	7 270	7 610	7 730
J	mm	3 080	3 370	3 620
K	mm	3 340	3 710	3 940
L	mm	2 290	2 410	2 630
М	mm	9 680	9 980	10 380



## Specifications.

L150H											
Tires 26.5 R25 L3		REHANDLING				GENERAL PURPOSE			ROCK***	LIGHT MATERIAL	
						MMMM	MMM	MMM			LONG BOOM*
		4.0 m <sup>3</sup> STE P BOE	4.4 m³ STE P BOE	4.8 m³ STE P BOE	5.2 m <sup>3</sup> STE P BOE	4.0 m <sup>3</sup> STE P T SEG	4.4 m³ STE P T SEG	4.5 m <sup>3</sup> STE P T SEG	3.5 m³ SPN P T SEG	6.8 m³ LM P	
Volume, heaped ISO/SAE	m <sup>3</sup>	4.0	4.4	4.8	5.2	4.0	4.4	4.5	3.5	6.8	-
Volume at 110% fill factor	m³	4.4	4.8	5.3	5.7	4.4	4.8	5.0	3.9	7.5	-
Static tipping load, straight	kg	20 500	20 230	19 950	19 800	18 100	17 690	17 670	18 730	16 360	-3 550
at 35° turn	kg	18 320	18 050	17 780	17 630	16 190	15 780	15 760	16 730	14 520	-3 270
at full turn	kg	18 070	17 810	17 530	17 380	15 970	15 560	15 550	16 500	14 310	-3 230
Breakout force	kN	201.3	191.7	183.2	182.7	202	192	184	188.0	140.0	9
Α	mm	8 600	8 680	8 750	8 750	8 790	8 860	8 930	8 850	9 230	520
E	mm	1 230	1 300	1 360	1 370	1 400	1 460	1 520	1 450	1 790	10
H**)	mm	3 020	2 970	2 920	2 920	2 890	2 850	2 800	2 870	2 620	570
L	mm	5 720	5 770	5 880	5 870	5 880	5 990	6 040	5 970	6 140	570
M**)	mm	1 220	1 270	1 320	1 320	1 360	1 410	1 450	1 420	1 700	-20
N**)	mm	1 800	1 830	1 860	1 860	1 880	1 910	1 930	1 930	1 960	450
V	mm	3 200	3 200	3 200	3 400	3 230	3 200	3 000	3 230	3 200	0
a, clearance circle	mm	14 640	14 670	14 700	14 890	14 750	14 760	14 600	14 800	14 940	340
Operating weight	kg	25 090	25 300	25 500	25 620	24 090	24 450	24 420	25 320	24 920	410

<sup>\*)</sup> Measured with 4.0 m<sup>3</sup> GP STE P T SEG bucket Note: This only applies to genuine Volvo attachments.

#### **Bucket Selection Chart**

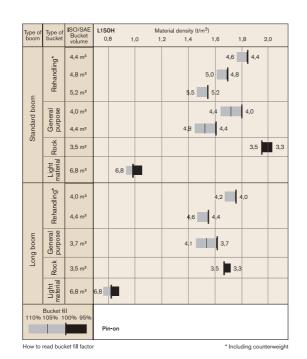
The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.

Example: Sand and gravel. Fill factor ~ 105%. Density 1.6 t/m³.

Result: The 4.0 m³ bucket carries 4.2 m³. For optimum stability always consult

the bucket selection chart.										
Material	Bucket fi	II, %	Material density, t/m³	ISO/SAE bucket vo- lume, m³	Actual volume, m <sup>3</sup>					
Earth/Clay	~ 110	0	~ 1.6 ~ 1.5	4.0 4.4	~ 4.4 ~ 4.8					
Sand/Gravel	~ 105	$\bigcirc$	~ 1.6 ~ 1.5	4.0 4.4	~ 4.2 ~ 4.6					
Aggregate	~ 100	$\bigcirc$	~ 1.8 ~ 1.7 ~ 1.5	4.4 4.8 5.2	~ 4.4 ~ 4.8 ~ 5.2					
Rock	≤100		~ 1.7	3.5	~ 3.5					

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



<b>Supplemental Operatin</b>	Supplemental Operating Data												
			Standard boom		Long boom								
Tires 26.5 R25 L3	3	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	+5	+30	+180	+5	+30	+180						
Ground clearance	mm	+18	+30	+10	+18	+30	+10						
Tipping load, full turn	kg	+250	+760	+590	+220	+640	+500						
Operating weight	kg	+400	+1 060	+760	+400	+1 050	+750						

### L180H

Tires 26.5 R25 L3		REHANDLING				GENERAL PURPOSE			ROCK***	LIGHT MATERIAL	
						MMM	Munn	MANAN			LONG BOOM*
		4.8 m³ STE P BOE	5.2 m³ STE P BOE	5.5 m³ STE P BOE	5.8 m³ STE P BOE	4.4 m³ STE P T SEG	4.6 m³ STE P T SEG	4.8 m³ STE P T SEG	4.2 m³ SPN P T SEG	7.8 m³ LM P	
Volume, heaped ISO/SAE	m <sup>3</sup>	4.8	5.2	5.5	5.8	4.4	4.6	4.8	4.2	7.8	-
Volume at 110% fill factor	m <sup>3</sup>	5.3	5.7	6.1	6.4	4.8	5.1	5.3	4.6	8.6	-
Static tipping load, straight	kg	23 670	23 520	23 350	23 210	21 540	21 560	21 360	22 250	20 430	-3 820
at 35° turn	kg	21 010	20 860	20 700	20 570	19 140	19 150	18 960	19 750	18 070	-3 480
at full turn	kg	20 710	20 560	20 390	20 260	18 860	18 880	18 690	19 470	17 800	-3 450
Breakout force	kN	224.9	224.2	216.2	210.0	235.9	236.0	226.4	212.6	173.5	3.9
Α	mm	8 890	8 890	8 960	9 010	9 000	9 000	9 070	9 140	9 360	470
E	mm	1 430	1 430	1 490	1 540	1 530	1 530	1 590	1 650	1 860	20
H**)	mm	3 060	3 050	3 010	2 970	2 990	2 990	2 940	2 910	2 690	500
L	mm	6 010	6 010	6 040	6 1 1 0	6 130	6 170	6 180	6 320	6 300	500
M**)	mm	1 330	1 330	1 370	1 410	1 420	1 420	1 460	1 520	1 610	20
N**)	mm	1 960	1 960	1 990	2 000	2 020	2 020	2 040	2 080	2 050	410
V	mm	3 200	3 400	3 400	3 400	3 200	3 200	3 200	3 230	3 400	-
a <sub>1</sub> clearance circle	mm	14 800	14 990	15 010	15 040	14 850	14 850	14 880	14 960	15 220	-
Operating weight	kg	28 070	28 190	28 290	28 360	27 020	27 060	27 120	28 440	27 470	270

\*) Measured with 4.6 m3 GP STE PT SEG bucket Note: This only applies to genuine Volvo attachments.

#### **Bucket Selection Chart**

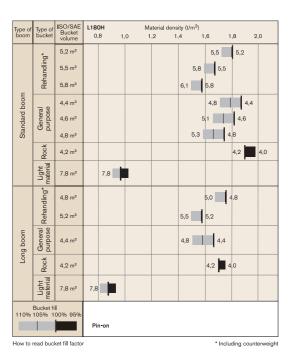
The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.

Example: Sand and gravel. Fill factor ~ 105%. Density 1.6 t/m³.

Result: The 4.6 m³ bucket carries 4.8 m³. For optimum stability always consult

the bucket selection that.											
Material	Bucket fill,	, %	Material density, t/m³	ISO/SAE bucket vo- lume, m <sup>3</sup>	Actual volume, m <sup>3</sup>						
Earth/Clay	~ 110	0	~ 1.7 ~ 1.6 ~ 1.5	4.4 4.6 4.8	~ 4.8 ~ 5.1 ~ 5.3						
Sand/Gravel	~ 105		~ 1.7 ~ 1.6 ~ 1.5	4.4 4.6 4.8	~ 4.6 ~ 4.8 ~ 5.1						
Aggregate	~ 100		~ 1.8 ~ 1.7 ~ 1.6	5.2 5.5 5.8	~ 5.2 ~ 5.5 ~ 5.8						
Rock	≤100	$\bigcirc$	~ 1.7	4.3	~ 4.3						

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



Supplemental Operating	upplemental Operating Data											
			Standard boom		Long boom							
Tires 26.5 R25 L3	3	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	+5	+30	+130	+5	+30	+130					
Ground clearance	mm	+18	+40	+10	+18	+40	+10					
Tipping load, full turn	kg	+280	+770	+600	+250	+760	+530					
Operating weight	kg	+400	+1 050	+920	+400	+1 050	+1 120					

<sup>\*\*)</sup> 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°.)

<sup>\*\*\*)</sup> Measured with 26.5 R25 L5 tires

<sup>\*\*)</sup> 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°.)

<sup>\*\*\*)</sup> Measured with 26.5 R25 L5 tires

## Specifications.

L220H											
Tires 29.5 R25 L3		REHANDLING				GENERAL PURPOSE			ROCK***	LIGHT MATERIAL	
11100 2010 N20 20						Robins	Monow	Minim			LONG BOOM*
		5.6 m <sup>3</sup> STE P BOE	5.9 m³ STE P BOE	6.3 m <sup>3</sup> STE P BOE	4.9 m³ STE P T SEG	5.2 m <sup>3</sup> STE P T SEG	5.6 m³ STE P T SEG	4.5 m <sup>3</sup> SPN P T SEG	5.0 m <sup>3</sup> SPN P T SEG	8.2 m³ LM P	
Volume, heaped ISO/SAE	m³	5.6	5.9	6.3	4.9	5.2	5.6	4.5	5.0	8.2	-
Volume at 110% fill factor	m³	6.2	6.5	6.9	5.4	5.7	6.2	5.0	5.5	9.0	-
Static tipping load, straight	kg	25 270	25 140	24 960	23 960	23 900	23 600	24 900	23 770	22 820	-2 890
at 35° turn	kg	22 420	22 290	22 120	21 280	21 220	20 940	22 150	21 090	20 190	-2 650
at full turn	kg	22 090	21 970	21 800	20 980	20 910	20 630	21 840	20 780	19 890	-2 620
Breakout force	kN	228.9	223.1	215.0	255.9	244.5	229.0	211.5	196.5	190.8	3.4
A	mm	9 270	9 310	9 380	9 310	9 350	9 460	9 580	9 730	9 580	310
E	mm	1 470	1 510	1 570	1 510	1 540	1 640	1 730	1 860	1 750	-30
H**)	mm	3 160	3 130	3 080	3 130	3 110	3 040	3 030	2 930	2910	370
L	mm	6 260	6 290	6 370	6 370	6 440	6 440	6 450	6 510	6 450	360
M**)	mm	1 400	1 440	1 480	1 430	1 470	1 560	1 700	1 800	1 610	-30
N**)	mm	2 100	2 120	2 150	2 120	2 160	2 200	2 250	2 300	2 180	270
V	mm	3 400	3 400	3 400	3 430	3 400	3 400	3 430	3 430	3 700	-
a <sub>1</sub> clearance circle	mm	15 570	15 590	15 620	15 610	15 610	15 670	15 770	15 850	16 020	-
Operating weight	kg	31 950	32 020	32 130	31 160	31 190	31 260	32 710	33 130	31 660	380

<sup>\*)</sup> Measured with 5.2 m3 GP STE PT SEG bucket Note: This only applies to genuine Volvo attachments.

#### **Bucket Selection Chart**

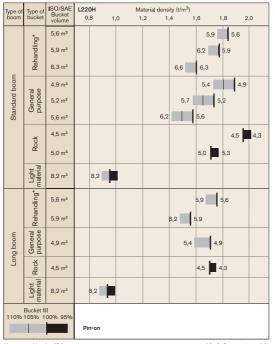
The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.

Example: Sand and gravel. Fill factor ~ 105%. Density 1.6 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, t/m³	ISO/SAE bucket vo- lume, m³	Actual volume, m³						
Earth/Clay	~ 110		~ 1.6 ~ 1.5 ~ 1.4	4.9 5.2 5.4	~ 5.4 ~ 5.7 ~ 5.9						
Sand/Gravel	~ 105		~ 1.7 ~ 1.6 ~ 1.5	4.9 5.2 5.4	~ 5.1 ~ 5.5 ~ 5.7						
Aggregate	~ 100	$\bigcirc$	~ 1.8 ~ 1.7 ~ 1.6	5.6 5.9 6.3	~ 5.6 ~ 5.9 ~ 6.3						
Rock	≤100		~ 1.7	4.5	~ 4.5						

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 Operation	ıg Data						
			Standard boom			Long boom	
Tires 29.5 R25 L4	4	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	-20	+35	+95	-20	+35	+95
Ground clearance	mm	±0	+40	-10	±0	+40	-20
Tipping load, full turn	kg	-100	+1 010	+180	-90	+930	+180
Operating weight	kg	-80	+1 490	+650	-80	+1 500	+650

## Equipment.

#### 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	•	•	•
Engine			
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			
Diesel Exhaust Fluid/AdBlue level			_
Transmission temperature	•	•	•
Coolant temperature			
Instrument lighting Lighting:			
Twin halogen front headlights with high and low			
beams Porking lights			
Parking lights Double brake and tail lights	•	•	•
Turn signals with flashing hazard light function			
Halogen work lights (2 front and 2 rear)			
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	•	<u> </u>	•
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:			
Lover warnings.			
Fuel level			
Fuel level Diesel Exhaust Fluid/AdBlue level			
Fuel level Diesel Exhaust Fluid/AdBlue level Engine oil level			•
Fuel level Diesel Exhaust Fluid/AdBlue level	•	•	•
Fuel level Diesel Exhaust Fluid/AdBlue level Engine oil level Engine coolant level Transmission oil level Hydraulic oil level	•	•	•
Fuel level Diesel Exhaust Fluid/AdBlue level Engine oil level Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level	٠	·	•
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:	٠	•	·
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			•
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			•
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			•
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 charge-air temperature High charge-air temperature			
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 charge-air temperature Engine shutdown to idle in case of malfunction		•	•
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:		•	•
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 charge-air temperature Engine shutdown to idle in case of malfunction	•	•	•
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 charge-air temperature Engine shutdown to idle in case of malfunction indication: High transmission oil temperature			

Drivetrain Automatic Power Shift Fully automatic gearshifting, 1-4 PWM-controlled gearshifting, 1-7 PWM-controlled gearshiting, 1-7 PWM-controlled	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 circuits Dual brake circuits Poula brake pedals Secondary brake system Parking brake, electro-hydraulic Brake west and incitators 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 pay-riem ment Dual interior lights Interior rear-view mirrors Dual exterior beat-beat-beat-beat-beat-beat-beat-beat-	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 exterior rear-view mirrors Dual exterior rear-view mirrors Slicting window, right side Tinted windshield glass Retractable seatbelt (SAE J386) Adjustable steering wheel Storage holder Windshield washer front and rear Windshield washer front and rear Windshield washer front and rear Interval function for front a		L150H	L180H	L220H
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. OpitShift Lock-up first gear Brake system Dual brake circuits Dual brake circuits Dual brake circuits Dual 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 exterior rear-view mirrors Dual exterior rear-view mirrors Sliding window, right side Tinted windshield glass Retractable seatbeft (SAE J386) Adjustable steering wheel Storage compartment Document pocket Sun visor Beverage holder Windshield washer front and rear Windshield washer front and rear Interval function for front and rear Windshield washer front and rear Interval function for front and rear Interval function for front and rear Windshield washer front and rear Windshield washer front and rear Interval function for front and rear Windshield washer front and rear Interval function for front and rear Windshield washer front and rear Windshield washer front and rear Undervice front of front and Brake system Beverage holder Windshield washer front and rear Windshield washer front and rear Interval function for front and rear Interval function for front and rear Undervice front and rear Undervice front and rear Windshield washer front and rear Interval function for front and rear Undervice front and rear Windshield washer front and rear Windshield washer front and rear Undervice front	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. OpitShift Lock-up first gear Brake system Dual brake circuits Dual brake circuits Dual brake circuits Dual 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 Interior rear-view mirrors Dual exterior rear-view mirrors Dual exterior rear-view mirrors Sliding window, right side Tinted windshield glass Retractable seatbeft (SAE J386) Adjustable steering wheel Storage compartment Document pocket Sun visor Beverage holder Windshield washer front and rear Windshiel	Fully automatic gearshifting, 1-4 PWM-controlled gearshifting, 1-9 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 war 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 windsheld 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 Windshield wipers front and rear Windshield wipers fron				
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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 washer 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 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  Vandalism lock prepared for Engine compartment  Radiator grille  Lifting eyes  Fabricated counterweight	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 washer 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 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  Vandalism lock prepared for Engine compartment  Radiator grille  Lifting eyes  Fabricated counterweight	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  Windshield wipers 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, Steering 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 ojlinders  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  Vandalism lock prepared for Engine compartment Radiator grille  Lifting eyes  Tie-down eyes	Floor mat	•	•	•
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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 Vandalism lock prepared for Engine compartment Radiator grille Lifting eyes Tie-down eyes Fabricated counterweight	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 Vandalism lock prepared for Engine compartment Radiator grille Lifting eyes Tie-down eyes Fabricated counterweight	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 Vandalism lock prepared for Engine compartment Radiator grille Lifting eyes Tie-down eyes			-	
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<sup>\*\*)</sup> 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°.)

<sup>\*\*\*)</sup> Measured with 29.5 R25 L5 tires

## 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	•	•	

n_L	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	•	•	٠
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			
Separate attachment locking Arctic kit, attachment locking hoses			
Separate attachment locking Arctic kit, attachment locking hoses Arctic kit, for 3rd function	٠	•	•
Separate attachment locking Arctic kit, attachment locking hoses Arctic kit, for 3rd function Boom cylinder hose and tube guards	٠	•	•
Separate attachment locking Arctic kit, attachment locking hoses Arctic kit, for 3rd function Boom cylinder hose and tube guards Hydraulic fluid, biodegradable, Volvo			•
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		•	•
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			
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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			
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			
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			
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, fire-resistant 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			
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			

	L150H	L180H	L220
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** 



**Electro-hydraulic function,** 3rd/4th



**LED** lights



Front/rear view camera



Axle oil cooler



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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BURNIE . LAUNCESTON

Reference Number: 20047153-D

HOBART

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With fully equipped parts warehouses in every capital city, and dealers throughout major regional towns, we have the support network in place to ensure you're well supported, no matter where you or your machines are. Ongoing in-house training programs ensures our technicians' skills keep pace with the latest technology and product advances.

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