Volvo Construction Equipment Building Tomorrow



## NEW L150H, L180H, L220H

Volvo Wheel Loaders 24.1-33.1t 299-373 hp



#### Progress is in our DNA

Since introducing our first wheel loader, Volvo has continued to refine its concept for more than half a century. Over the years, we have revolutionized our machines, bringing customers unparalleled productivity and efficiency.

1981





The world's first wheel loader to feature a parallel lift arm system and attachment bracket with quick coupler - the H-10

The first wheel loader with direct injected turbo engine – Volvo BM 1641

1973

Volvo introduced the world's first truly low-emission diesel engines in construction equipment (1974)

Volvo introduced the world's first automatic gear shifting system (Automatic Power Shift) and load sensing hydraulic technology

1988

**Comfort Drive Control** 

Boom suspension system

1990

Volvo patented Torque Parallel linkage (1991)

# SMARIER STRONGER, FASTER

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



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



OptiShift

CareTrack



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



New generation OptiShift

Second generation load sensing hydraulics – Patent pending

#### With you for the long run

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

## **Smarter operation**

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

#### Up to 15% greater fuel efficiency

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



#### **Reverse By Braking**

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



#### Power up, fuel down

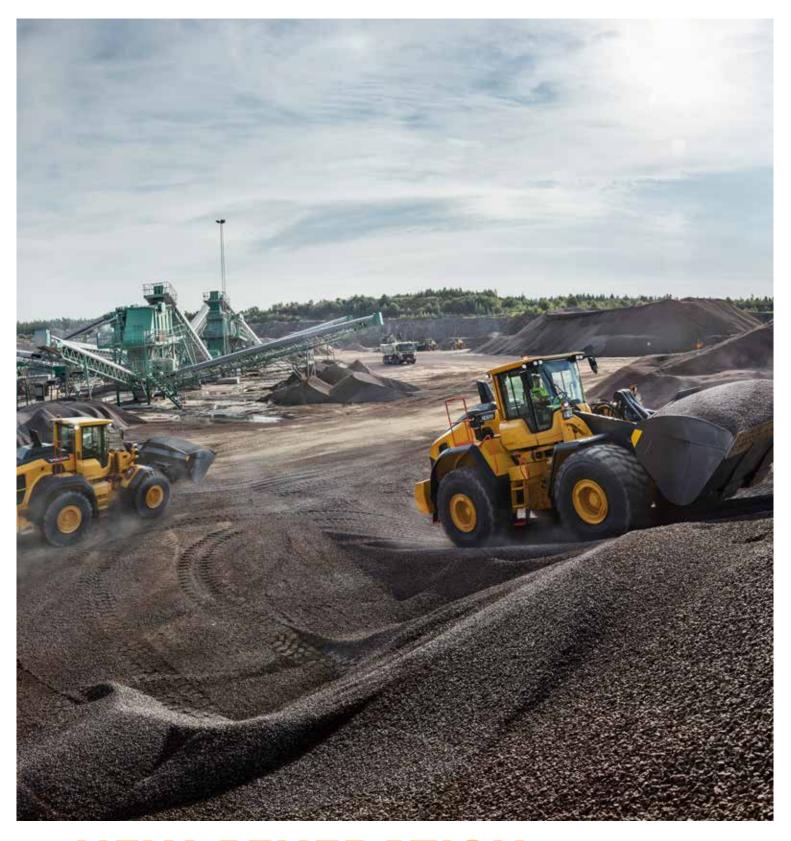
For short cycle times and high fuel efficiency, the H-series wheel loaders are fitted with a powerful Volvo engine – compliant with the latest emission regulations – delivering greater output and torque than the G-series.



#### Eco pedal

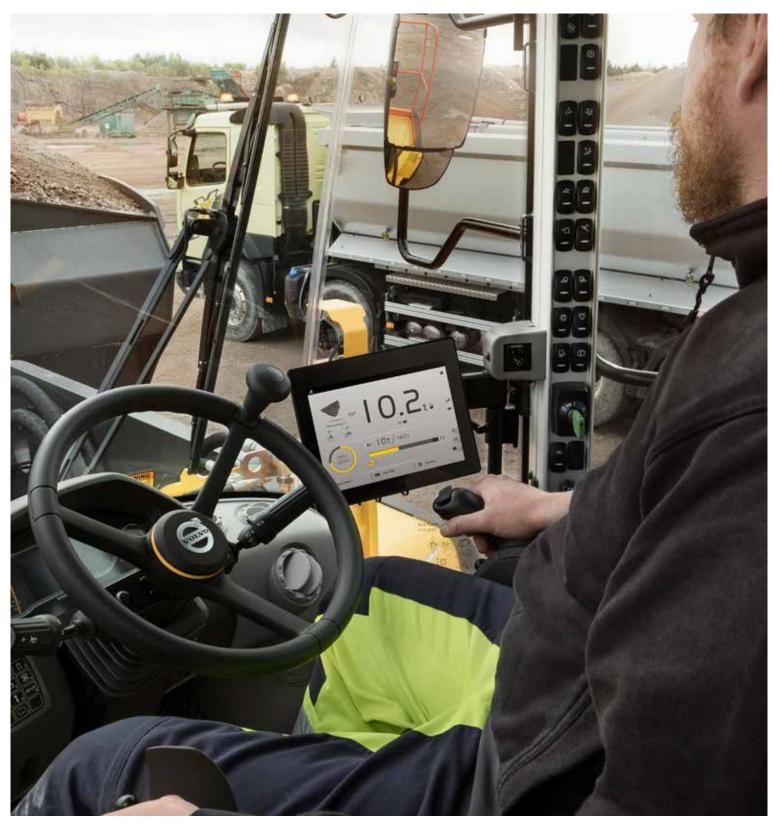
Save on machine wear and increase fuel efficiency with the eco pedal. Uniquely designed by Volvo, the eco pedal encourages economical operation, by applying a mechanical push-back force in response to excess use of the accelerator.





# NEW GENERATION OPTISHIFT

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





Unlock the full potential of your machine's productivity with Load Assist, a dynamic load weighing system with  $\pm 2\%$  accuracy. Powered by the 10" Volvo Co-Pilot touchscreen, the system enables you to monitor the amount of material moved and easily manage work orders – the data can then be stored and accessed remotely. In addition, you can track your machine's fuel efficiency with the help of CareTrack.

## Made to move

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

#### Boost your productivity by up to 10%

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



#### Fast cycle times

Achieve shorter cycle times with next generation load sensing hydraulics, designed to enhance the responsiveness of attachments and improve the lifting and lowering speed of the boom.



#### **Comfortably productive**

Customize your machine and ensure precise control of hydraulic functions, with the choice of single or multi levers. To get the most out of each operation, select from three hydraulic modes, according to your preferred responsiveness.



#### **Bucket leveling function**

Take your productivity to the next level with the new bucket leveling function. Automatically return the bucket to level from both dump and curl positions, enhancing operator performance.



## Fully loaded

Get the most out of your Volvo wheel loader with a range of purpose built attachments. Form one solid and reliable unit, with attachments that are ideally matched by size and design to your machine's parameters – including link-arm geometry, breakout and lifting forces. If we don't have the right attachment, Volvo can custom build one to your specific requirements.

#### Rehandling

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



#### Log handling

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



#### Slag handling

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



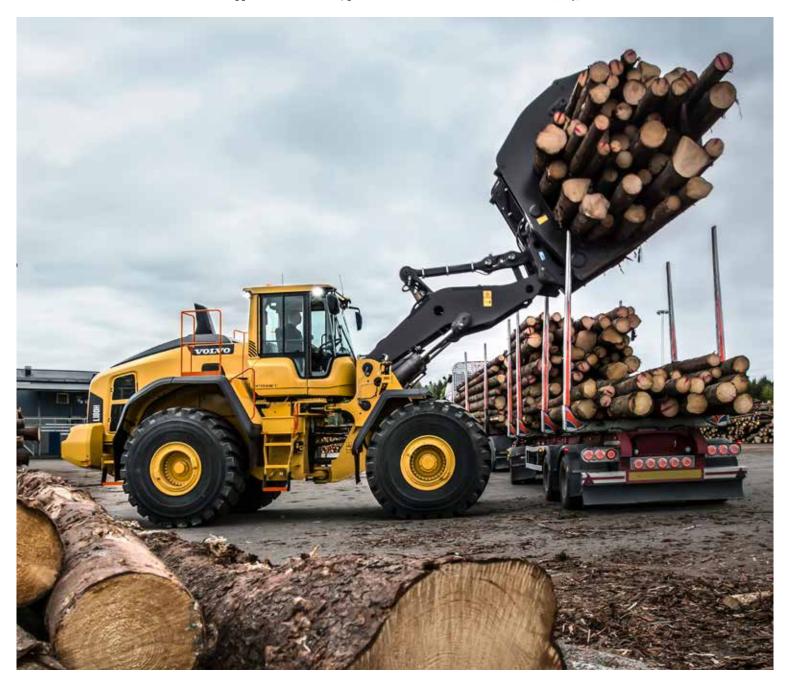
#### **Block handling**

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





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



# TORQUE Parallel Linkage

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

## Strong and smart machines

## **UP TO 15% GREATER FUEL EFFICIENCY** • New generation OptiShift • Eco pedal • Reverse By Braking • New dry P-brake **MAXIMIZE YOUR UPTIME** • Strong frame and central hinge • Tilting cab – 30° or 70° • Electronically-operated engine hood • Brake wear indicators • Outboard mounted brakes • Replaceable breather filters

#### HERE TO SUPPORT YOU

- Genuine Volvo Parts
- Operator training
- Proactive Monitoring

#### **FULLY LOADED**

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

#### **BOOST YOUR PRODUCTIVITY BY UP TO 10%**

• New load sensing hydraulics • New transmission and gear ratio



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



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



# THE OPERATOR'S CHOICE

Operate in comfort from the best cab on the market, the Volvo cab can be equipped with a new adjustable seat. Access the cab safely and effortlessly using the steps and open the door with ease, thanks to the optional remote-control opener.

## Built with the operator in mind

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

#### Visibility

To enhance visibility, the H-series wheel loaders have new rearview mirrors and can be equipped with a rear-view camera. Optimized by the radar detect system, which works with the camera to give a visual and audible alert to the operator of unseen on-coming objects. Orange handrails and steps have been placed on the machine, intended to stand out to the operators and maintenance staff.



#### **Comfort Drive Control**

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



#### **Operator training**

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



## Keep moving

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

#### Durable by design

Designed with durability in mind, the H-series wheel loaders are built with a strong frame structure, ideally-matched to Volvo powertrain. The hydraulically-driven cooling fan regulates component temperature and can be automatically reversed to permit self-cleaning of the cooling units. For long service life, the brakes are outboard mounted and the front and rear axles are cooled by the oil circulation.



#### Here to support you

Maintain productivity and machine uptime with our range of readily available Genuine Volvo Parts, all backed by Volvo warranty. We're here to help you stay on track, offering flexible maintenance and repair plans.



#### **Proactive Monitoring**

Keep your machine moving with Proactive Monitoring. Volvo monitors machine health remotely, from our very own Uptime Center, helping to predict potential failures before they occur. This gives you more time to focus on your operation, helping to reduce unplanned downtime and minimize repair costs.





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



# INDUSTRY LEADING ServiceAbility

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

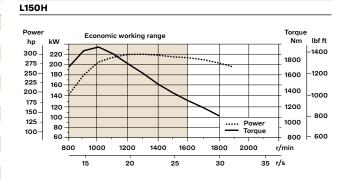
### Volvo L150H, L180H, L220H in detail

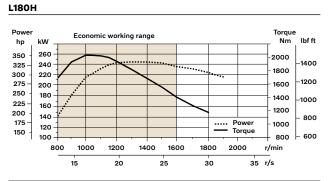
#### Engine

V-ACT Stage V 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: 3 stages. Cooling system: Hydrostatic, electronically controlled fan and intercooler

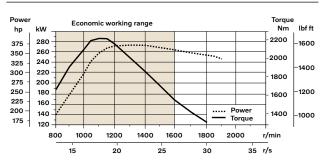
of the air-to-air type.

L150H		
Engine	Volvo	D13J
Max. power at	r/min	1 300
ECE R120 net	kW	224
	hp	304
ISO 9249, SAE J1349 net	kW	220
	hp	299
Max. torque at	r/min	1000
SAE J1995 gross	Nm	1960
ISO 9249, SAE J1349 net	Nm	1 957
Economic working range	r/min	800 - 1 600
Displacement	1	12.80
L180H		
Engine	Volvo	D13J
Max. power at	r/min	1 300 - 1 400
ECE R120 net	kW	251
	hp	341
ISO 9249, SAE J1349 net	kW	245
	hp	333
Max. torque at	r/min	1000
SAE J1995 gross	Nm	2 030
ISO 9249, SAE J1349 net	Nm	2 024
Economic working range	r/min	800 - 1600
Displacement	1	12.80
L220H		
Engine	Volvo	D13J
Max. power at	r/min	1 300 - 1 400
ECE R120 net	kW	280
	hp	380
ISO 9249, SAE J1349 net	kW	273
	hp	371
Max. torque at	r/min	1 100
SAE J1995 gross	Nm	2 231
ISO 9249, SAE J1349 net	Nm	2 220
Economic working range	r/min	800 - 1 600
Displacement	I	12.8









#### Drivetrain

**Torque converter:** Single-stage. Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears with Pulse Width Modulation (PWM)

valve. Torque converter with lockup. **Transmission:** Volvo Automatic Power Shift (APS) with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO.

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

		L150H	L180H	L220H
Transmission	Volvo	HTL 223	HTL 223	HTL 310
Torque multiplication, stall ratio	)	2.09:1	2.09:1	2.02:1
Maximum speed, forward/reven	rse			
1st gear	km/h	6.1	6.1	6.7 / 6.6
2nd gear	km/h	12.6	12.6	11.6 / 11.4
3rd gear	km/h	23.5	23.5	21.7 / 21.4
4th gear	km/h	38	38	36.5/36.1
Measured with tires		26.5 R25 L3	26.5 R25 L3	29.5 R25 L4
Front axle/rear axle		Volvo/ AWB 40B/40C	Volvo/ AWB 40B/40B	Volvo/ AWB 50/41
Rear axle oscillation	±°	15	15	15
Ground clearance	mm	610	610	600
at oscillation	0	15	15	15

#### Electrical System

Central warning system: Contronic electrical system with central warning light and buzzer for following functions: - Serious engine fault - Low steering system pressure - Over speed warning engine fault - Low steering system pressure - Over speed warning engine -Interruption in communication (computer fault) Central warning light and buzzer with the gear engaged for the following functions. - Low engine oil pressure - High engine oil temperature - High charge air temperature -Low coolant level - High coolant temperature - High crank case pressure - Low transmission oil pressure - High transmission oil temperature - Low brake pressure - Engaged parking brake - Fault on brake charging - Low hydraulic oil level - High hydraulic oil temperature - Overspeeding in engaged gear - High brake cooling oil temperature front and rear axles.

		L150H	L180H	L220H
Voltage	V	24	24	24
Batteries	V	2 x 12	2 x 12	2 x 12
Battery capacity	Ah	2 x 170	2 x 170	2 x 170
Cold cranking capacity, approx	А	1000	1000	1000
Alternator rating	W/A	2 280/80	2 280/80	2 280/80
Starter motor output	kW	7	7	7

#### Brake System

Service brake: Volvo dual-circuit system with nitrogen charged accumulators. Outboard mounted hydraulically operated, fully sealed oil circulation-cooled wet disc brakes. The operator can select automatic disengagement of the transmission when braking using Contronic. **Parking brake:** Dry disc brake. Applied by spring force, electro-hydraulic release with a switch on the instrument panel.

Secondary brake: Dual brake circuits with rechargeable accumulators. One circuit or the parking brake fulfills all safety requirements. Standard: The brake system complies with the requirements of ISO 3450.

	L150H	L180H	L220H
Number of brake discs per wheel front/rear	1/1	1/1	2/1
Accumulators I	2 x 1.0 + 3 x 0.5	2 x 1.0 + 1 x 0.5	2 x 1.0 + 1 x 0.5

#### Cab

Instrumentation: All important information is centrally located in the operator's field of vision. Display for Contronic monitoring system. Heater and defroster: Heater coil with filtered fresh air and fan with auto

and 11 speeds. Defroster vents for all window areas. **Operator's seat:** Operator's seat with adjustable suspension and retractable seatbelt. The seat is mounted on a bracket on the rear cab wall and floor. The forces from the retractable seatbelt are absorbed by the seat rails.

Standard: The cab is tested and approved according to ROPS (ISO 3471), FOPS (ISO 3449). The cab meets with requirements according to ISO 6055 (Operator overhead protection - Industrial trucks) and SAE J386 ("Operator Restraint System").

Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq

		L150H	L180H	L220H				
Emergency exit: Use emergency hammer to break window								
Ventilation	m³/min	9	9	9				
Heating capacity	kW	16	16	16				
Air conditioning (optional)	kW	7.5	7.5	7.5				

Lift Arm System

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

		L150H	L180H	L220H
Lift cylinders		2	2	2
Cylinder bore	mm	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

### Volvo L150H, L180H, L220H in detail

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#### Hydraulic System

System supply: Two load-sensing axial piston pumps with variable

displacement. The steering function always has priority. Valves: Double-acting 2-spool valve. The main valve is electro operated. Lift function: The valve has four positions; raise, hold, lower and floating position. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lifting height.

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

**Cylinders:** Double-acting cylinders for all functions. **Filter:** Full flow filtration through 10 micron (absolute) filter cartridge. L150H L180H L220H Working pressure maximum, pump 1 for working hydraulic MPa 29 29

system	u	20	20	20
Flow	l/min	180	217	252
at	MPa	10	10	10
engine speed	r/min	1900	1900	1900
Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa	31	31	31
Flow	l/min	202	202	202
at	MPa	10	10	10
engine speed	r/min	1900	1900	1900
Working pressure maximum, pump 3 for brake- and cooling fan system	MPa	25	25	25
Flow	l/min	83	83	83
at	MPa	10	10	10
engine speed	r/min	1900	1900	1900
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	202	202	202
Maximum articulation	±°	37	37	37

Service Refill

Service accessibility: Large, easy-to-open hood covering whole engine department, electrically operated. Fluid filters and component breather air filters promote long service intervals. Possibility to monitor, log and analyze data to facilitate troubleshooting.

		L150H	L180H	L220H
Fuel tank	I	366	366	366
DEF/AdBlue <sup>®</sup> tank	L	31	31	31
Engine coolant	I	55	55	55
Hydraulic oil tank	I	156	156	226
Transmission oil	I	48	48	48
Engine oil	L	50	50	50
Axle oil front	I	46	46	77
Axle oil rear	I	55	55	71
Sound Level				
		L150H	L180H	L220H
Sound level in cab according to ISO	63	96/SAE J2	2105	
L <sub>pA</sub> dE	З	69	70	70
External sound level according to ISC	0 6	6395/SAE	J2104	
L <sub>WA</sub> dE	З	108	108	109

### **Specifications**

#### Tires L150H, L180H: 26.5 R25 L3. Tires L220H: 29.5 R25 L3 Tire deflection: standard

		Sta	ndard bo	om	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		
К	mm	4 340	4 470	4 660	4 900	4 970	5 020		
0	٥	58	57	56	59	55	56		
Pmax	٥	50	49	48	49	49	48		
R	٥	45	45	43	48	48	44		
R <sub>1</sub> *	٥	48	48	47	53	53	49		
S	٥	66	71	65	61	63	63		
Т	mm	93	131	119	149	207	121		
U	mm	520	570	600	640	660	680		
Х	mm	2 280	2 280	2 400	2 280	2 280	2 400		
Y	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 <sub>2</sub>	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 m<sup>3</sup> GP STE PT SEG L180H: 4.6 m<sup>3</sup> GP STE PT SEG L220H: 5.2 m<sup>3</sup> GP STE PT SEG

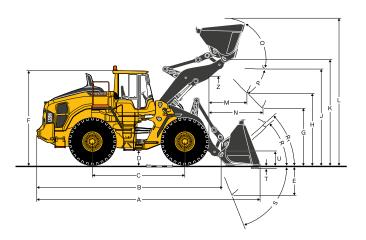
**L150H** Sales code: WLA80713 Operating weight (incl. logging cw 1 140 kg): 25 660 kg Operating load: 7 700 kg

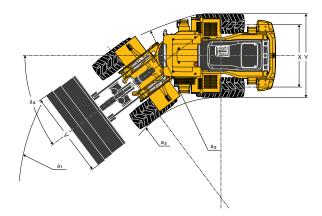
**L180H** Sales code: WLA80027 Operating weight (incl. logging cw 1 140 kg): 28 470 kg Operating load: 8 710 kg

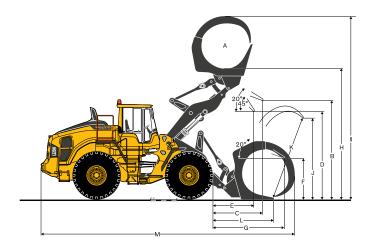
**L220H** Sales code: WLA80852 Operating weight (incl. logging cw 870 kg): 32 810 kg Operating load: 10 080 kg

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

	Tires L150H, L180H: 775/65 R29 L3   Tires L220H: 875/65 R29 L4								
		L150H	L180H	L220H					
А	m²	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	1650	1 720	1 780					
F	mm	1630	1700	1640					
G	mm	2 930	3 040	3 230					
н	mm	4 990	5 170	5 350					
1	mm	7 270	7 610	7 730					
J	mm	3 080	3 370	3 620					
К	mm	3 340	3 710	3 940					
L	mm	2 290	2 410	2 630					
Μ	mm	9 680	9 980	10 380					







### **Specifications**

L150H											
			REHAN	DLING		GENERAL PURPOSE			ROCK***	LIGHT MATERIAL	
Tires 26.5 R25 L3										Ø	LONG BOOM*
		4.0 m <sup>3</sup> STE P BOE	4.4 m <sup>3</sup> STE P BOE	4.8 m <sup>3</sup> STE P BOE	5.2 m <sup>3</sup> STE P BOE	4.0 m <sup>3</sup> STE P T SEG	4.4 m <sup>3</sup> STE P T SEG	4.5 m <sup>3</sup> STE P T SEG	3.5 m <sup>3</sup> SPN P T SEG	6.8 m <sup>3</sup> LM P	
Volume, heaped ISO/SAE	m³	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
A	mm	8 600	8 680	8 750	8 750	8 790	8 860	8 930	8 850	9 230	520
E	mm	1 2 3 0	1300	1360	1 370	1400	1460	1 520	1450	1790	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 3 2 0	1 320	1360	1 410	1 4 5 0	1 4 2 0	1700	-20
N**)	mm	1800	1830	1860	1860	1880	1 910	1930	1930	1960	450
V	mm	3 200	3 200	3 200	3 400	3 230	3 200	3 000	3 230	3 200	0
a <sub>1</sub> 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
*) Measured with 4.0 m <sup>3</sup> GP 9	TE PT	SEG bucket	Note: Thi	s only annlin	s to genuine	Volvo attack	nments				

\*) Measured with 4.0 m<sup>3</sup> GP STE PT SEG 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°.)

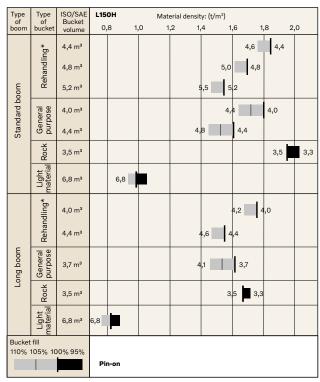
\*\*\*) Measured with 26.5 R25 L5 tires

#### **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/m<sup>3</sup>. Result: The 4.0 m<sup>3</sup> bucket carries 4.2 m<sup>3</sup>. For optimum stability always consult the bucket selection chart.

Material	Bucke	Bucket fill, %		ISO/SAE bucket volume, m <sup>3</sup>	Actual volume, m <sup>3</sup>
Earth/Clay	~ 110		~ 1.6 ~ 1.5	4.0 4.4	~ 4.4 ~ 4.8
Sand/ Gravel	~ 105		~ 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.



How to read bucket fill factor

\* Including counterweight

#### Supplemental Operating Data

Supplemental Operating Data	I		Standard boom			Long boom	
Tires 26.5 R25 L3		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	+1060	+760	+400	+1 050	+750

L180H											
			REHANDLING			GENERAL PURPOSE			ROCK***		
Tires 26.5 R25 L3						A MARK	A MANNA				LONG BOOM*
		4.8 m <sup>3</sup> STE P BOE	5.2 m <sup>3</sup> STE P BOE	5.5 m <sup>3</sup> STE P BOE	5.8 m <sup>3</sup> STE P BOE	4.4 m <sup>3</sup> STE P T SEG	4.6 m <sup>3</sup> STE P T SEG	4.8 m <sup>3</sup> STE P T SEG	4.2 m <sup>3</sup> SPN P T SEG	7.8 m³ LM P	
Volume, heaped ISO/SAE	m³	4.8	5.2	5.5	5.8	4.4	4.6	4.8	4.2	7.8	-
Volume at 110% fill factor	m³	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
A	mm	8 890	8 890	8 960	9 010	9 000	9 000	9 070	9 140	9 360	470
E	mm	1430	1430	1490	1540	1 530	1 530	1590	1650	1860	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	6 110	6 130	6 170	6 180	6 320	6 300	500
M**)	mm	1 3 3 0	1 3 3 0	1 370	1 410	1420	1 4 2 0	1460	1 520	1 610	20
N**)	mm	1960	1960	1990	2 000	2 0 2 0	2 0 2 0	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 m<sup>3</sup> GP STE P T SEG 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 26.5 R25 L5 tires

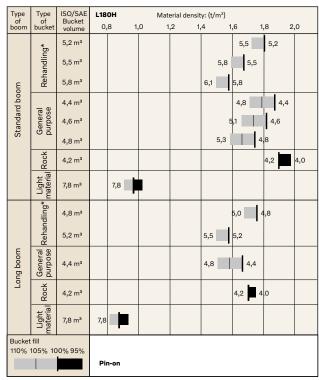
#### Bucket Selection Chart

Supplemental Operating Data

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/m<sup>3</sup>. Result: The 4.6 m<sup>3</sup> bucket carries 4.8 m<sup>3</sup>. For optimum stability always consult the bucket selection chart.

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



How to read bucket fill factor

\* Including counterweight

			Standard boom		Long boom			
Tires 26.5 R25 L3		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	

### **Specifications**

L220H											
			REHANDLING				GENERAL PURPOSE			ROCK*** LIGHT MATERIAL	
Tires 29.5 R25 L3											LONG BOOM*
		5.6 m <sup>3</sup> STE P BOE	5.9 m <sup>3</sup> STE P BOE	6.3 m <sup>3</sup> STE P BOE	4.9 m <sup>3</sup> STE P T SEG	5.2 m <sup>3</sup> STE P T SEG	5.6 m <sup>3</sup> 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 m <sup>3</sup> 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	0
Volume at 110% fill factor	m <sup>3</sup>	6.2	6.5	6.9	5.4	5.7	6.2	5.0	5.5	9.0	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 0 9 0	20 190	-2 650
at full turn	kg	22 090	21970	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
А	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	1540	1640	1730	1860	1750	-30
H**)	mm	3 160	3 130	3 080	3 130	3 110	3 040	3 030	2 930	2 910	370
L	mm	6 260	6 290	6 370	6 370	6 4 4 0	6 4 4 0	6 450	6 510	6 450	360
M**)	mm	1400	1440	1480	1430	1 470	1 560	1700	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
*) Measured with 5.2 m <sup>3</sup> GP S	TEPT	SEG bucket	Note: This	s only applie	s to genuine	Volvo attac	hments				

<sup>(f)</sup> Measured with 5.2 m<sup>3</sup> GP STE PT SEG 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°.)

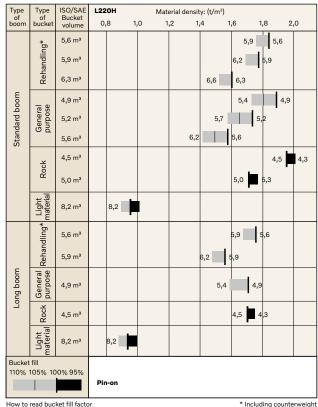
#### \*\*\*) Measured with 29.5 R25 L5 tires

#### **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/m<sup>3</sup>. Result: The 5.2 m<sup>3</sup> bucket carries 5.5 m<sup>3</sup>. For optimum stability always consult the bucket selection chart.

Material	Bucket	t fill, %	Material density, t/m³	ISO/SAE bucket volume, m <sup>3</sup>	Actual volume, m <sup>3</sup>
Earth/Clay	~ 110		~ 1.6 ~ 1.5 ~ 1.4	4.9 5.2 5.4	~ 5.4 ~ 5.7 ~ 5.9
Sand/ Gravel	~ 105	$\bigcirc$	~ 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.



\* Including counterweight

Supp	lemental	Operating	Data

			Standard boom			Long boom			
Tires 29.5 R25 L4		29.5 R25 L3	29.5 R25 L5	875/65 R29 L4	29.5 R25 L3	29.5 R25 L5	875/65 R29 L4		
Width over tires	mm	-20	+35	+95	-20	+35	+95		
Ground clearance	mm	±Ο	+40	-10	±Ο	+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
 Engine	1		-
Exhaust after-treatment system	•	•	•
Two stage air cleaner, pre-cleaner, primary and secondary filter	•	•	•
Preheating of induction air	•	•	•
Fuel pre-filter with water trap	•	•	•
Fuel filter	•	•	•
Crankcase breather oil trap	•	•	•
Exterior radiator air intake protection	•	•	•
Drivetrain			
Automatic Power Shift	•	•	•
Fully automatic gearshifting, 1-4	•	•	•
PWM-controlled gearshifting	•	•	•
Forward and reverse switch by hydraulic lever console	•	•	•
Indicator glass for transmission oil level	•	•	•
Differentials: Front, 100% hydraulic diff lock. Rear, conventional.	•	•	•
Optishift with Lock-up, RBB	•	•	•
Lock-up first gear	•	•	•
Electrical System			
24 V, pre-wired for optional accessories	•	•	•
Alternator 24V/80A/2280W	•	•	•
Battery disconnect switch	•	•	•
Fuel gauge	•	•	•
Hour meter	•	•	•
Electric horn	•	•	•
Instrument cluster: Fuel level Diesel Exhaust Fluid/AdBlue level Transmission temperature Coolant temperature Instrument lighting	•	•	•
Lighting: Twin halogen front headlights with high and low beams Parking lights Davids before and trillights	•	•	•

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

STANDARD EQUIPMENT

function

Halogen work lights (2 front and 2 rear)

Double brake and tail lights Turn signals with flashing hazard light

### Equipment

#### STANDARD EQUIPMENT

	1150H	I 180H	L220H
Hydraulic System	Lison	210011	222011
Main valve, double acting 2-spool with hydraulic pilots	•	•	•
Variable displacement axial piston pumps (3) for: 1 Working hydraulics, Pilot hydraulics and			
Brake system 2 Working hydraulics, Pilot hydraulics, Steering and Brake system 3 Cooling fan and Brake system	•	•	•
Electro-hydraulic servo controls	•	•	•
Electronic hydraulic lever lock	•	•	•
Automatic boom kick-out	•	•	•
Automatic bucket positioner	•	•	•
Double-acting hydraulic cylinders	•	•	•
Indicator glass for hydraulic oil level	•	•	•
Hydraulic oil cooler	•	•	•
Brake System			
Dual brake circuits	•	•	•
Dual brake pedals	•	•	•
Secondary brake system	•	•	•
Parking brake, electro-hydraulic	•	•	•
Brake wear indicators	•	•	•
Cab			
ROPS (ISO 3471), FOPS (ISO 3449)	•	•	•
Single key kit door/start	•	•	•
Acoustic inner lining	•	•	•
Cigarette lighter, 24 V power outlet	•	•	•
Lockable door	•	•	•
Cab heating with fresh air inlet and defroster	•	•	•
Fresh air inlet with two filters	•	•	•
Automatic heat control	•	•	•
Floor mat	•	•	•
Dual interior lights	•	•	•
Interior rear-view mirrors	•	•	•
Dual exterior rear-view mirrors	•	•	•
Sliding window, right side	•	•	•
Tinted windshield glass	•	•	•
Retractable seatbelt (SAE J386)	•	•	•
Adjustable steering wheel	•	•	•
Storage compartment	•	•	•
Document pocket	•	•	•
Sun visor	•	•	•
Beverage holder	•	•	•
Windshield washer front and rear	•	•	•
Windshield wigers front and rear	•	•	•
Interval function for front and rear wipers	•	•	•
international of the none and rear wipers			

STANDARD EQUIPMENT			
	L150H	L180H	L220H
Service and Maintenance			
Engine oil remote drain and fill	•	•	•
Transmission oil remote drain and fill	•	•	•
Lubrication manifolds, ground accessible	•	•	•
Pressure check connections: transmission and hydraulic, quick-connects	•	•	•
Tool box, lockable	•	•	•
External Equipment			
Orange hand rails	•	•	•
Fenders, front and rear	•	•	•
Viscous cab mounts	•	•	•
Rubber engine and transmission mounts	•	•	•
Frame, joint lock	•	•	•
Vandalism lock prepared for Engine compartment Radiator grille	•	•	•
Lifting eyes	•	•	•
Tie-down eyes	•	•	•
Fabricated counterweight	•	•	•
Counterweight, pre-drilled for optional guards	•	•	•

#### OPTIONAL EQUIPMENT

	L150H	L180H	L220H
Engine			
Air pre-cleaner, cyclone type	•	•	•
Air pre-cleaner, oil-bath type	•	•	•
Air pre-cleaner, turbo type	•	•	•
Engine auto shutdown	•	•	•
Engine delayed shutdown	•	•	•
Engine block heater 230V/110V	•	•	•
Fuel fill strainer	•	•	•
Fuel heater	•	•	•
Hand throttle control	•	•	•
Max. fan speed, hot climate Radiator, corrosion-protected	•	•	•
Reversible cooling fan	•	•	•
Reversible cooling fan and axle oil cooler			
Tires			
26.5 R25	•	•	_
			_
775/65 R29	•	•	_
29.5 R25	—	_	•
875/65 R29	_	_	•
Drivetrain			
Diff lock front 100%, Limited Slip rear	•	•	•
Speed limiter	•	•	•
Wheel/axle seal guards	•	•	•
Electrical System			
Anti-theft device	•	•	•
Emergency stop	•	•	•
Locking device, Tag out Lock out	•	•	•
Headlights, assym. left	•	•	•
License plate holder, lighting	•	•	•
Rear vision system, colour LCD monitor in the cab	•	•	•
Rear view mirrors, Long arm	•	•	•
Rear view mirrors, adjustable, el.heated, Long arm Reduced function working lights, reverse gear	•	•	•
activated	•	•	•
Reverse alarm, audible	•	•	•
Reverse alarm, white noise	•	•	•
Reverse warning light, strobe lighting	•	•	•
Shortened headlight support brackets	•	•	•
Side marker lamps	•	•	_
Warning beacon LED	•	•	•
Warning beacon LED automatic	•	•	•
LED Head Light	•	•	•
LED tail light	•	•	•
LED working lights, attachments	•	•	•
LED working lights on cab, front and rear	•	•	•
LED working lights on cab, front,	•	•	•
2 alt. 4 LED lamps LED working lights on cab, rear,			
2 alt. 4 LED lamps	•	•	•
LED working lights, rear in grille, 2 LED lamps	•	•	•
LED working lights, front above head lamps,	•	•	•
2 LED lamps	•	•	•
LED work lights, side on cab, 4 LED lamps	•	•	•
LED light packages	•	•	•
Working lights halogen, attachments	•	•	•
Working lights on cab halogen, front and rear	•	•	•
Working lights on cab halogen, rear	•	•	•
Electrical distribution unit 24 volt	•	•	•
Alternator 120 amp, heavy-duty	•	•	•
Load Assist	•	•	•
Radar detect system Forward camera, colour	•	•	•
Parking brake alarm, audible for air susp seats		•	
Jump start connector, NATO-Type	•		
sump start connector, NATO-Type	•	•	•

OPTIONAL EQUIPMENT			
	L150H	L180H	L220H
Hydraulic System			
Boom suspension system	•	•	•
Separate attachment locking	•	•	•
Arctic kit, for 3rd function	•	•	•
Boom cylinder hose and tube guards	•	•	•
Hydraulic fluid, biodegradable, Volvo	•	•	•
Hydraulic fluid, fire-resistant	•	•	•
Hydraulic fluid, for hot climate	•	•	•
Hydraulic 3rd function	•	•	•
hydraulic 3rd-4th function	•	•	•
Single lever control, hydraulics 2 functions	•	•	•
Single lever control, hydraulics 3 functions	•	•	•
Single lever control, hydraulics 4 functions	•	•	•
Brake System			
Oil cooler and filter front & rear axle	•	•	•
Stainless steel, brake lines	•	•	_
Cab			
Anchorage for Operator's manual	•	•	•
Automatic Climate Control, ACC	•	•	•
ACC control panel, with Fahrenheit scale	•	•	•
Asbestos dust protection filter	•	•	•
Ashtray	•	•	•
Cab air pre-cleaner, cyclone type	•	•	•
Carbon filter	•	•	•
Cover plate, under cab	•	•	•
Lunch box holder	•	•	•
Volvo Armrest, operator's seat, left	•	•	•
Operator's seat, Volvo air susp, heavy-duty,			
high back, heated	•	•	•
Operator's seat, (air seat std) 2-point seat belt	•	•	•
Operator's seat, (air seat std) 3-point seat belt	•	•	•
Radio installation kit incl. 12 volt outlet, left side	•	•	•
Radio installation kit incl. 12 volt outlet, right side	•	•	•
Radio (with AUX, Bluetooth and USB connection)	•	•	•
Subwoofer	•	•	•
Steering wheel knob	•	•	•
Sun blinds, rear windows	•	•	•
Sun blinds, side windows	•	•	•
Timer cab heating	•	•	•
Window, sliding, door	•	•	•
Universal door/ignition key	•	•	•
Remote door opener	•	•	•
Forward view mirror	•	•	•
Cab heater power outlet 240V	•	•	•

### Equipment

#### OPTIONAL EQUIPMENT

	L150H	L180H	L220H
Service and Maintenance			
Automatic lubrication system	•	•	•
Automatic lubrication system for long boom	•	•	•
Grease nipple guards	•	•	•
Oil sampling valve	•	•	•
Refill pump for grease to lube system	•	•	•
Tool kit	•	•	•
Wheel nut wrench kit	•	•	•
CareTrack, GSM, GSM/Satellite	•	•	•
Telematics, Subscription	•	•	•
Protective Equipment			
Belly guard front	•	•	•
Belly guard rear	•	•	•
Cover plate, heavy-duty, front frame	•	•	•
Cover plate, rear frame	•	•	•
Cab roof, heavy-duty	•	•	•
Guards for front headlights	•	•	•
Guards for radiator grill	•	•	•
Guards for tail lights	•	•	•
Windows, side and rear guards	•	•	•
Windshield guard	•	•	•
Corrosion protection, painting of machine	•	•	•
Corrosion protection, painting of attachment bracket	•	•	_
Bucket Teeth protection	•	•	-
External Equipment			
Cab ladder, rubber-suspended	•	•	•
Deleted front mudguards	•	•	•
Fire suppression system	•	•	•
Mudguards, full cover, front and rear for 80-series tires	•	•	•
Mudguards, full cover, front and rear for 65-series tires	•	•	•
Long boom	•	•	•
Tow hitch	•	•	•

	L150H	L180H	L220H
Other Equipment			
CE-marking	•	•	•
Comfort Drive Control (CDC)	•	•	•
Counterweight, logging	•	•	•
Counterweight, signal painted, chevrons	•	_	_
Secondary steering with automatic test function	•	•	•
Sound decal, EU	•	•	•
Sound decal, USA	•	•	•
Reflecting stickers (decals), machine contour	•	•	•
Reflecting stickers (stripes), machine contour Cab	•	•	•
Noise reduction kit, exterior	•	•	•
Sign, 50 km/h	•	-	-
Attachments			
Buckets:	•	•	•
Rock straight or spade nose	•	•	•
General purpose	•	•	•
Re-handling	•	•	•
Side-dump	•	•	•
Light material	•	•	•
Wear parts:	•	•	•
Bolt-on and weld-on bucket teeth	•	•	•
Segments	•	•	•
Cutting edge in three sections, bolt-on	•	•	•
Fork equipment	•	•	•
Material handling arm	•	•	•
Log grapples	•	•	•

#### SELECTION OF VOLVO OPTIONAL EQUIPMENT

#### Additional auxiliary hydraulics



Central lubrication system



External axle oil cooling





LED light packages



Long boom



Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.



Volvo Construction Equipment