

Volvo Construction Equipment Building Tomorrow

L180H HIGH-LIFT

Volvo Wheel Loaders 34.9-38.0 t 334 hp



REACH FURTHER, LIFT HIGHER

The new H-series L180H High-Lift may boast the same striking design as the former G-Series, but this machine has been updated with the latest innovative technology, promoting greater productivity and fuel efficiency. With a High-Lift ability unique to Volvo, the L180H High-Lift pushes the boundaries of the ordinary wheel loader.

A proven concept since 1974

Volvo was the first to present a High-Lift wheel loader to the industry in 1974. Built on years of experience the new Volvo L180H High-Lift has been specifically designed, from frame to grapple, for log handling applications.

60% more space

Optimize space in your timber yard and save up to 60% worth of space, thanks to the high-lift arm system of the L180H High-Lift. Offering excellent stability and long reach (3 metres), to stack logs up to 6.5 metres high.

Range of grapples

To help you reach any log on the stack, Volvo grapple with rotator unit offers 360° rotation and has built-in shock absorbers and a tilting function. For more information on our complete range of Volvo attachments, just speak to your dealer!

Benefits in the base

Primed for productivity, the robust wheel loader base offers stability when travelling over adverse terrains at high speeds. This is enhanced by the Boom Suspension System, which engages to absorb shock and reduce bouncing.

Make room for more stock

Store more timber and push logs further onto the pile, with the optional log pusher. Increasing stack height by up to 30% (1.5 m), the log pusher is an efficient tool for log handling operations. For comfort and safety, the log pusher is operated by two push buttons, situated in front of the hydraulic control levers.

Sky-high efficiency

The new L180H High-Lift combines the latest Volvo technology with power and upgraded features, resulting in up to 5% better fuel efficiency and 5% greater productivity than the G-series.

Up to 5% greater fuel efficiency

Do more with less fuel, the H-series machine update offers up to 5% 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.



Boost your productivity by up to 5%

For ultimate stability and high efficiency, the L180H High-Lift has 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.

Eco pedal

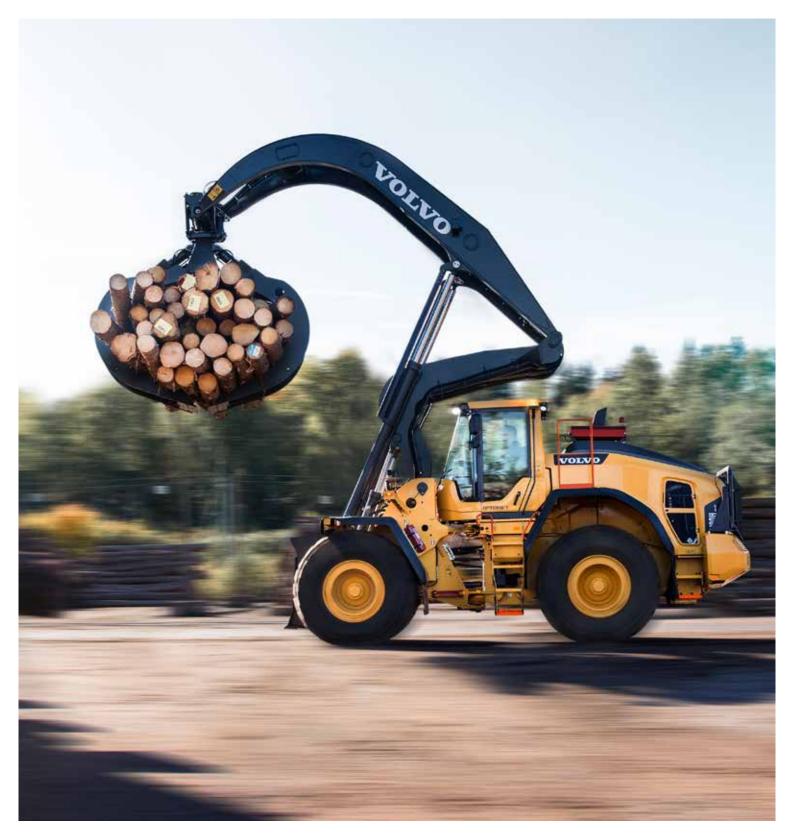
Save on machine wear and increase fuel efficiency with the eco pedal. Uniquely designed by Volvo, the eco pedal encourages economical operation, by applying a mechanical push-back force in response to excess use of the accelerator.



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.



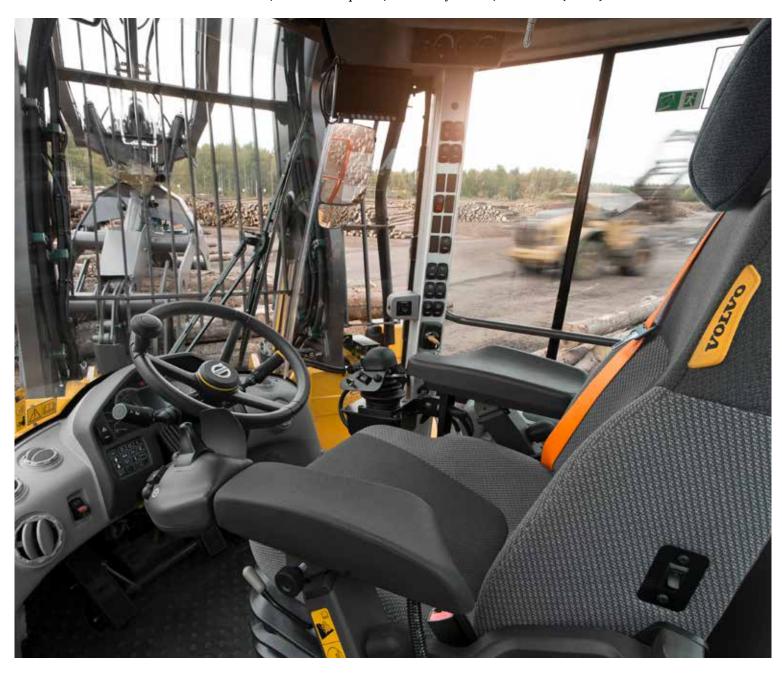


NEW GENERATION OPTISHIFT

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.



I am providing service for the sorting line, extracting sorted timber from the pockets. The Volvo wheel loader is an excellent machine, easy to use and convenient. Controls and hydraulics, everything is fine. Vladimir Golubev, Wheel loader operator, Malinovskiy Sawmill, West Siberia (Russia)



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 L180H High-Lift boasts a range of features to enhance your operating experience, including Comfort Drive Control. For increased productivity, the Volvo cab can be customized to your preference.

Visibility

To enhance visibility, the High-Lift has new rear view mirrors and is equipped with a rear-view camera. Optimized by the optional 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.



Comfortably productive

Ensure precise control of the hydraulics from the specially designed lever, with multiple functions. For greater controllability and improved cycle times, Comfort Drive Control gives you the opportunity to steer the machine from a small lever.



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.



In demand

Offering strength in demanding applications, the L180H High-Lift is built to last. Maintain the life of your machine with simple serviceability and proactive dealer support, as well as flexible maintenance and repair plans.

Volvo ACTIVE CARE

Keep your machine moving with Volvo ACTIVE CARE. 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.



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.

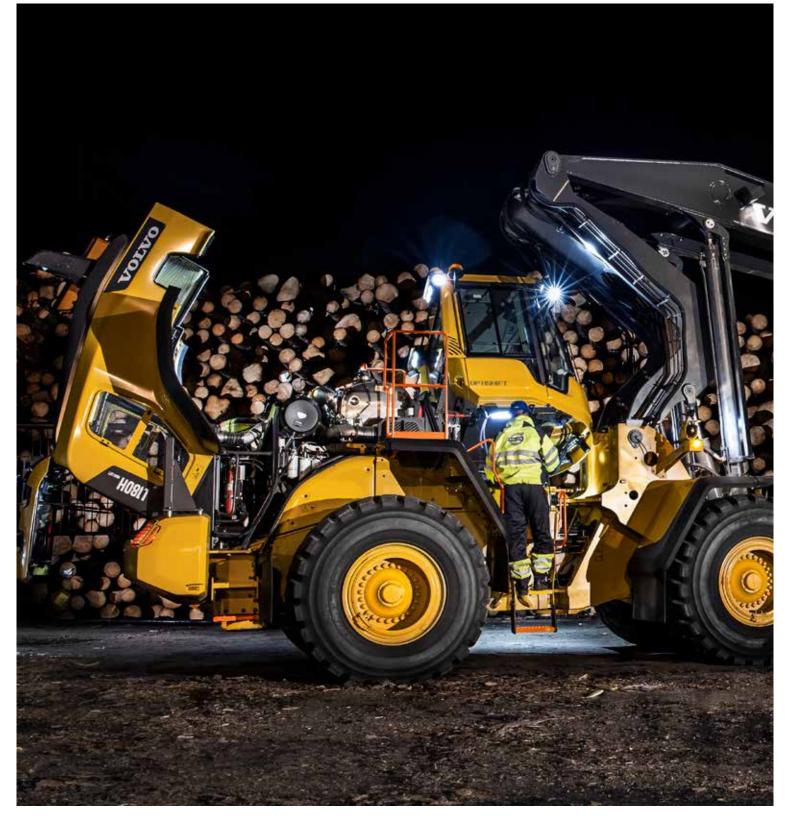


Here to support you

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.

Volvo, with its special attachments for wood handling, has the upper hand over other manufacturers. And if we had to choose only one brand, we would choose Volvo – that is on the one hand a question of philosophy, but on the other hand also for economic reasons. Hans Weinzierl Junior, Managing Director, Holzwerke Weinzierl, Vilshofen (Germany)





INDUSTRY LEADING ServiceAbility

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

BUILT FOR THE JOB

- Redesigned rear view mirrors
- Rear-view camera
- Adjustable premium seat (optional)
- Comfort Drive Control (optional)
- Radar detect system (optional)

UP TO 5% GREATER FUEL EFFICIENCY

- New generation OptiShift
- Rimpull control
- Dry P-brake
- Eco pedal
- Reverse By Braking

MAXIMIZE YOUR UPTIME

- Quicker hydraulic oil fill thanks to new mounted nipple
- Tilting cab 30° or 70°
- Electronically-operated engine hood
- Brake wear indicators
- Outboard mounted brakes
- Replaceable breather filters

New levels of efficiency

SET YOUR TARGETS HIGHER

- New transmission and gear ratio: 5% greater productivity
- High-lift arm system: reach up to 3 m, stack up to 6.5 m
- Wheel loader base
- Log pusher: up to 30% higher stack
- Range of grapples

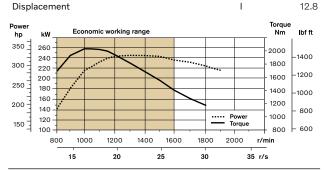


Volvo L180H High-Lift in detail

Engine

V-ACT Stage II, 13 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electronically controlled unit injectors. The engine has wet replaceable cylinder liners and replaceable valve guides and valve seats. The throttle applications is transmitted electrically from the throttle pedal or the optional hand throttle. **Air cleaning:** Two-stage: - primary filter -secondary filter. **Cooling system:** Hydraulically driven radiator cooling fan.

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Engine	Volvo	D13F
Max. power at	r/min	1 300 - 1 400
SAE J1995 gross	kW	246
	hp	334
ISO 9249, SAE J1349 net	kW	245
	hp	333
Max. torque at	r/min	1 0 0 0
SAE J1995 gross	Nm	2 030
ISO 9249, SAE J1349 net	Nm	2 024
Economic working range	r/min	800 - 1 600



Brake System

Service brake: Volvo dual-circuit system with nitrogen-charged accumulators. Outboard-mounted fully hydraulic operated, fully sealed oil circulation-cooled wet disc brakes. The operator can select automatic declutch of the transmission when braking by a switch on the instrument panel.

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.

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 front

Accumulators

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I 2 x 1.0 + 1 x 0.5
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Electrical System

Central warning system:

Contronic electrical system with central warning light and buzzer for following functions: - Serious engine fault - Low steering system pressure - Over speed warning engine - Interruption in communication (computer fault)

Central warning light and buzzer with the gear engaged for the following functions. - Low engine oil pressure - High engine oil temperature - High charge air temperature - Low coolant level - High coolant temperature - High crank case pressure - Low transmission oil pressure - High transmission oil temperature - Low brake pressure - Engaged parking brake - Fault on brake charging - Low hydraulic oil level - High hydraulic oil temperature - Overspeeding in engaged gear - High brake cooling oil temperature front and rear axles.

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

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

Transmission: Volvo Automatic Power Shift (APS) with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO. Also equipped with Rimpull control to avoid wheel spin. **Axles:** Volvo fully floating axle shafts with planetary hub reductions and nodular iron axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

Transmission	Volvo	HTL 223
Torque multiplication, stall ratio		2.09:1
Maximum speed, forward/reverse		
1st gear	km/h	6.1
2nd gear	km/h	12.6
3rd gear	km/h	23.5
4th gear	km/h	38
Note: 4th gear limited by ECU		
Measured with tires		800/65R29
Front axle/rear axle		AWB 40B
Rear axle oscillation	±°	13
Ground clearance	mm	610
at oscillation	٥	13

Cab		
Instrumentation: All important informat operator's field of vision. Display for Co Heater and defroster: Heater coil with and 11 speeds. Defroster vents for all w Operator's seat: Operator's seat with a retractable seatbelt. The seat is mounted The forces from the retractable seatbel' Standard: The cab is tested and approv FOPS (ISO 3449). The cab meets with 6055 (Operator overhead protection - 1 ("Operator Restraint System"). Refrigerant of the type R134a is used v with air conditioning. Contains fluorinat Warming Potential 1.430 t CO2-eq	ntronic 3.0 monit filtered fresh air a indow areas. adjustable suspen don a bracket on a re absorbed by ved according to F n requirements ac ndustrial trucks) a vhen this machine	oring system. and fan with auto sion and the rear cab wall. the seat rails. ROPS (ISO 3471), cording to ISO and SAE J386 is equipped
Ventilation	m³/min	9
Heating capacity	kW	16
Air conditioning (optional)	kW	7.5
Steering System		
Steering system: Load-sensing, hydro System supply: The steering system h axial piston pump. Steering cylinders: Two double-acting	as priority feed fro	
Steering cylinders		2
Cylinder bore	mm	100
Rod diameter	mm	60
Stroke	mm	525
Working pressure	MPa	21
Maximum flow	l/min	252
Maximum articulation	±°	37
Service Refill		
Service accessibility: Large, easy-to-o department, electrically operated. Fluid filters promote long service intervals. A tank provides faster hydraulic oil fill. Po data to facilitate troubleshooting.	filters and compo quick-fit adapter	onent breather air on the hydraulic
Fuel tank	I	366
Engine coolant	1	55
Hydraulic oil tank	1	156
Transmission oil	1	48
Engine oil	1	50

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Axle oil front

Axle oil rear

Lift Arm System

The Volvo high-lift arm system is a rugged and stable in-house design, with optimized visibility throughout the work cycle. The new lift arm design gives increased lift height and the possibility to rotate the grapple 360 degrees fully open at top position. The lift height is 5.8 meters under closed grapple. The lift arm system also integrates windshield protection. Lift outlinde

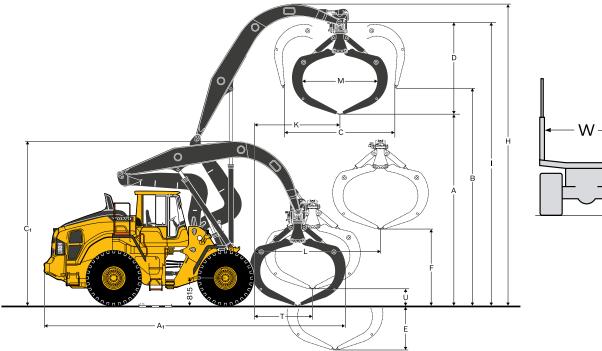
Lift cylinders		2
Cylinder bore	mm	140
Piston rod diameter	mm	110
Stroke	mm	2 220
Tilt cylinder		2
Cylinder bore	mm	140
Piston rod diameter	mm	70
Stroke	mm	691

Hydraulic System

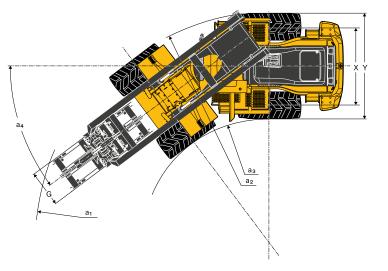
System supply: Two load-sensing axial piston pumps with variable displacement. The steering function always has priority from one of the pumps. Valves: Two main valves. Main valve 1: 2 spool control valve for lift- and tilt function. Main valve 2: 4 spool control valve for grapple, grapple tilt, rotator and log pusher (extra equipment). Filter: Full flow filtration through 10 micron (absolute) filter cartridge.

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Working pressure maximum, pump 1	MPa	20			
Working pressure maximum, pump 2	MPa	21			
Pilot system	MPa	3.2 - 4.0			
Lower, empty (top to bottom)	S	6			
Sound Level					
Sound level in cab according to ISO 6396/SAE J2105					
L _{pA}	dB	70			
External sound level according to ISO 6395/SAE J2104					
Lwa	dB	108			

Specifications



Tires: 775/65 R29*						
Rotating grapple, 360°, 3.2 m², 82127						
A ₁	Grapple positioned lengthwise	mm	9 600			
	 with log pusher 	mm	9 916			
A_2	Grapple tilted forward	mm	10 590			
C ₁	Grapple positioned lengthwise	mm	5 160			
C ₂	Grapple tilted forward	mm	4 760			
н		mm	9 132			
1		mm	8 930			
К		mm	2 760			
L		mm	3 990			
Т		mm	1885			
U		mm	490			
Х		mm	2 280			
Y		mm	3 080			
a ₁		mm	7 630			
a ₂		mm	6 840			
a ₃		mm	3 830			
a ₄		٥	± 37			



Note: When loading a vehicle, the log grapple's width (M-measure) should be 150 mm narrower compared to the distance between the "stakes" (W) on the vehicle.

		Timber Ler	ngth 5.0 m	Timber Length 4.0 m	Pulpwood Lo	ength 4.0 m
lires 775/65 R29*		Ç	Ó	Ó		
Grapple area	m²	3.2	3.2	3.5	3.8	3.8
Grapple weight	kg	1880	2 050/1 960	2 150	2 020/1 940	2 210
Working load	kg	8 800	8 600/8 700	8 500	8 600/8 700	8 500
A	mm	5 800	5 800	5 700	5 350	5 350
В	mm	6 700	6 700	6 600	6 450	6 450
С	mm	3 630	3 630	3 750	4 500	4 500
D	mm	2 900	2 900	2 850	3 350	3 200
E	mm	1 3 3 0	1330	1 4 3 0	1780	1780
F	mm	2 255	2 255	2 150	1800	1800
G	mm	1 100	1 100/900	11	1 100/900	900
М	mm	2 400	2 400	2 550	2 350	2 350
Operating weight*	kg	34 935	35 105/35 015	35 205	35 075/34 995	35 265
Shortwood (pulpwood)					х	х
Timber		х	х	х		
Terminal handling		х	х	х	х	х
Unloading/loading of veh	icles	х	х	х	x/x	x/x
Unloading against wall					x	х
With hydraulic clamping a	arms		х	х		х
With triplex chain		х			х	
Order no.		91852	82127/82126	82128	94463/93607	82129

* Including liquid in rear tires. Optional liquid in front tires increases operating weight by 1830 kg. Log pusher (order no. 84181) increases operating weight by 800 kg. Radiator grille guard (WL86023) increases operating weight by 140 kg. Fire suppression system increases operating weight by 85 kg.

Equipment

STANDARD EQUIPMENT	STANDARD EQUIPMENT			
Engine	Contronic monitoring system			
Preheating of induction air	Monitoring and logging of machine data			
Exterior radiator air intake protection	Contronic display			
Two stage air cleaner, pre-cleaner, primary and secondary filter	Fuel consumption			
Crankcase breather oil trap	Diesel Exhaust Fluid/AdBlue consumption			
Reversible cooling fan	Ambient temperature			
Fuel filter	Clock			
Indicator for coolant level	Test function for warning and indicator lights			
Fuel pre-filter with water trap	Brake test			
Exhaust after-treatment system	Test function, sound level at max fan speed			
Drivetrain	Warning and indicator lights:			
Automatic Power Shift	Battery charging Parking brake			
Fully automatic gearshifting, 1-4				
PWM-controlled gearshifting	Warning and display message: Regeneration			
Forward and reverse switch by hydraulic lever console	Engine coolant temperature			
Rimpull control	Charge-air temperature Engine oil temperature			
Indicator glass for transmission oil level	Engine oil pressure			
Differentials: Front, 100% hydraulic diff lock. Rear, conventional.	Transmission oil temperature Transmission oil pressure			
OptiShift	Hydraulic oil temperature			
Lock-up first gear	Brake pressure			
Electrical system	Parking brake applied			
24 V, pre-wired for optional accessories	Brake charging Overspeed at direction change Axle oil temperature Steering pressure Crankcase pressure			
Alternator 24V/80A/2280W				
Battery disconnect switch				
Fuel gauge	Attachment lock open			
Hour meter	Safety Belt Warning			
Electric horn	Level warnings: Fuel level			
Electric horn Instrument cluster: Fuel level Transmission temperature Coolant temperature Instrument lighting Lighting:	Tue level Diesel Exhaust Fluid/AdBlue level Engine oil level Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level			
Twin halogen front headlights with high and low beams Parking lights Double brake and tail lights Turn signals with flashing hazard light function Halogen work lights (2 front and 2 rear)	Engine torque reduction in case of malfunction indication: High engine coolant temperature High engine oil temperature Low engine oil pressure High crankcase pressure High charge-air temperature			
	Engine shutdown to idle in case of malfunction indication: High transmission oil temperature Slip in transmission clutches			
	Keypad, background lit			
	Start interlock when gear is engaged			
	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 hydroulic convo controlo			

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 Boom suspension system

STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
Brake system	Engine
Dual brake circuits	Air pre-cleaner, cyclone type
Dual brake pedals	Air pre-cleaner, oil-bath type
Secondary brake system	Air pre-cleaner, turbo type
Parking brake, electro-hydraulic	Engine auto shutdown
Brake wear indicators	Engine delayed shutdown
Oil cooler and filter front & rear axle	Engine block heater
Cab	Fuel fill strainer
ROPS (ISO 3471), FOPS (ISO 3449)	Fuel heater
Single key kit door/start	Hand throttle control
Acoustic inner lining	Max. fan speed, hot climate
Cigarette lighter, 24 V power outlet	Radiator, corrosion-protected
Lockable door	Reversible cooling fan and axle oil cooler
Cab heating with fresh air inlet and defroster	Tires
Fresh air inlet with two filters	775/65 R29
Automatic heat control	Drivetrain
Floor mat	Speed limiter
Dual interior lights	Electrical system
Interior rear-view mirrors	Anti-theft device
Dual exterior rear-view mirrors	Emergency stop
Sliding window, right side	Locking device, Tag out Lock out
Tinted windshield glass	Headlights, assym. left
Retractable seatbelt (SAE J386)	License plate holder, lighting
Adjustable steering wheel	Rear vision system, colour LCD monitor in the cab
Storage compartment	Reduced function working lights, reverse gear activated
Document pocket	Reverse alarm, audible
Sun visor	Reverse alarm, audible, multi-frequency
	Reverse warning light, strobe lighting
Beverage holder Windshield washer front and rear	Side marker lamps
	Warning beacon LED
Windshield wipers front and rear Interval function for front and rear wipers	
Service and maintenance	Warning beacon LED automatic
	LED Head Light
Automatic lubrication system	LED tail light
Engine oil remote drain and fill Transmission oil remote drain and fill	LED working lights, attachments
	LED working lights on cab, front and rear
Lubrication manifolds, ground accessible	LED working lights on cab, front, 2 alt. 4 LED lamps
Pressure check connections: transmission and hydraulic, quick-connects	LED working lights on cab, rear, 2 alt. 4 LED lamps
Quick-fit hydraulic oil fill	LED working lights, rear in grille, 2 LED lamps
Tool box, lockable	LED working lights, front above head lamps, 2 LED lamps
External equipment	LED work lights, side on cab, 4 LED lamps
Orange hand rails	LED work lights, attachments, 6 LED lamps
Fenders, front and rear	LED light packages
Viscous cab mounts	Working lights halogen, attachments
Rubber engine and transmission mounts	Working lights on cab halogen, front and rear
Frame, joint lock	Working lights on cab halogen, rear
Vandalism lock prepared for Engine compartment	Electrical distribution unit 24 volt Radar detect system
Radiator grille	Jump start connector, NATO-Type
Lifting eyes	
Tie-down eyes	
Fabricated counterweight	
Counterweight, pre-drilled for optional guards	
Other equipment	

Counterweight, logging

Equipment

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Hydraulic system	Protective equipment
Hydraulic fluid, biodegradable, Volvo	Belly guard rear
Hydraulic fluid, fire-resistant	Belly guard rear, oil pan
Hydraulic fluid, for hot climate	Center hinge and rear frame guard
Brake system	Cover plate, rear frame
Stainless steel, brake lines	Cab roof, heavy-duty
Cab	Guards for front headlights
Anchorage for Operator's manual	Guards for radiator grill
Automatic Climate Control, ACC	Guards for tail lights
ACC control panel, with Fahrenheit scale	Windows, side and rear guards
Asbestos dust protection filter	External equipment
Ashtray	Cab ladder, rubber-suspended
Cab air pre-cleaner, cyclone type	Fire suppression system
Carbon filter	Handles on counterweight
Cover plate, under cab	Counterweight, signal painted, chevrons
Lunch box holder	Mudguards, full cover wideners and prot. Included
Volvo Armrest, operator's seat, left	Tow hitch
Operator's seat, Volvo air susp, heavy-duty, high back, heated	Other equipment
Operator's seat, (air seat std) 2-point seat belt	CE-marking
Operator's seat, (air seat std) 3-point seat belt	Comfort Drive Control (CDC)
Operator's seat, Premium Comfort ISRI	Secondary steering with automatic test function
Operator's seat, Premium Comfort ISRI 3-point seat belt	Sound decal, EU
Radio installation kit incl. 12 volt outlet, left side	Sound decal, USA
Radio installation kit incl. 12 volt outlet, right side	Reflecting stickers (decals), machine contour
Radio (with AUX, Bluetooth and USB connection)	Reflecting stickers (stripes), machine contour Cab
DAB Radio	Option for machines without dinitrol
Subwoofer	Noise reduction kit, exterior
Steering wheel knob	Sign, slow moving vehicle
Sun blinds, rear windows	Sign, 50 km/h
Sun blinds, side windows	Attachments
Timer cab heating	Log grapples
Window, sliding, door	
Universal door/ignition key	
Remote door opener	
Forward view mirror	
Cab heater power outlet 240V	
Delayed Engine Shutdown	

Service and maintenance Oil sampling valve

Wheel nut wrench kit Quick engine oil change Cleaner kit, with air blow gun ROX, rapid oil exchange pump CareTrack, GSM, GSM/Satellite Telematics, Subscription

Tool kit

Refill pump for grease to lube system

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Fire suppression system



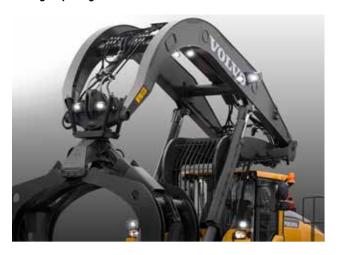
Radar detect system



Log pusher



LED lights package



Rotating beacon LED



Hydro-inflated rear tyres



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