

Volvo Wheel Loaders 50.0-56.3 t 540 hp

L350H



Evolution of excellence

With a proud history dating back to the L320 in 1985, Volvo has been developing and refining our wheel loader technology for decades. The new L350H continues this evolution, building on the success of its predecessor with a host of upgrades. The result is a heavy-duty wheel loader which delivers a lower total cost of ownership and more profitable performance.







10% faster, more productivity

Get ready for faster cycle times with a more responsive hydraulics system, featuring new lift and tilt cylinders, and an increased hydraulic working pressure.

Even tougher

The tougher and stronger L350H features a more robust upper center hinge bearing and updated frames to accommodate the new axles and transmission.

Up to 15% more fuel efficient

The well-matched driveline features new Volvo axles, while the all-new Volvo transmission enables third-generation OptiShift – which boosts fuel efficiency by up to 15%* – to be equipped as standard. Tractive force is also increased by up to 22% depending on machine speed and engaged gear.

*depending on application, machine specification, bucket and operator behaviour

Doubled service intervals

The axle oil interval has been doubled to 4 000-hours, reducing the corresponding service time, as well as cutting oil and filter requirements by half.



Built for demanding jobs

Whatever application you are working in, the heavy-duty L350H is ready for action. The proven Z-bar lifting arm with double sealing on each of the pins, and strong frame structure, is joined by a reinforced upper center hinge and new Volvo axles. Combined with a wide range of purpose-built Volvo Attachments, the result is a machine built to take on the toughest of jobs.

Rock loader

The L350H is prepared for tire chains and is the perfect match with a 65t truck due to the long boom configuration. With a long floor and optimized radius, the Volvo Rock Bucket makes for easy filling, and a Side Dump variant is available for tunneling applications.



Rehandler

With an impressive 10.7m³ capacity, the Volvo Rehandling Bucket is easy to fill and minimizes spillage. Choose the Boom Suspension System, which automatically engages depending on the prevailing gear and speed, to enhance productivity and absorb shocks.



Block handler

For high lifting force and maximum stability in block handling applications, choose from the standard or heavy-duty kit variants and a range of robust Volvo Attachments, including block forks, breaker tine and clearing rakes. The optional Volvo Engine Brake provides a smoother operation when travelling downhill with heavy marble blocks.



Slag handler

Dealing with extremely high temperatures takes a special kind of engineering. From unique guarding to heat-resistant components, the slag handling package enables our Volvo Wheel Loaders to meet the unique challenges of this application.





LOG LOADER

With high lifting force and tilt out force, the L350H log loader is designed to withstand the long shifts and demanding environments common in the forestry industry.

Your profitability partner

Enhance the profitability of your operation in the upgraded L350H, featuring an all-new Volvo transmission. Established features and complementary services, such as the Load Assist suite of apps accessed from the in-cab 10" Volvo Co-Pilot display, further improve efficiency.

Optimize fuel use

Optimize fuel use with rimpull control, which adapts the tractive force to prevent wheel spin and facilitate bucket filling. Volvo Attachments are perfectly matched to your machine to deliver optimum productivity and efficiency. For even more efficiency gains, the Fuel Efficiency Report can help to identify areas for improvement.



Take control of your productivity

Make overloading, underloading, reweighing and waiting times a thing of the past with the On-Board Weighing app, providing real-time insight into the load of the bucket or grapple. The Productivity Report can help with taking the necessary steps to lower your cost per tonne. With support from Volvo Site Simulation, your Volvo dealer can recommend the best fleet configuration and site set-up.



Coach your performance

The Operator Coaching app helps operators understand how their actions influence machine productivity, fuel efficiency and wear. Features include interactive guidance, on-screen prompts and visualization of performance. With a range of available training initiatives, we are ready to support with operator development, helping them to unlock the full capability of their Volvo machine.



Faster cycle times

Benefit from faster cycle times and more productivity thanks to the new hydraulic system with increased hydraulic pressure and new lift/tilt cylinders, combined with new driveline.





UP TO 15% MORE FUEL EFFICIENT

Thanks to the new driveline, third generation OptiShift is now enabled on the L350H. The technology integrates the Reverse By Braking function and lock up function in transmission. Fuel efficiency is also enhanced by an optimized gear shifting ratio and the new converter, which delivers higher outputs resulting in up to 22% more tractive force depending on gear and speed.

For your comfort and safety

Step inside the best cab on the market, providing an unrivalled operator experience. The levels of comfort, convenience and safety in the L350H will help operators achieve optimum results – shift after shift.

Superb visibility

Outstanding visibility helps operators to work in comfort and confidence, aided by the optional electrically adjusted heated rearview mirrors. When installed, the rearview camera and radar detect system are fully integrated into the Volvo Co-Pilot and provide a visual and audible alert to the operator if any unseen objects are approaching.



Take control

Configure the machine according to the job and operator's preferred responsiveness, with a choice of three hydraulic modes. Customizable lockup further helps to adapt the machine to the task at hand, along with rimpull control which modifies tractive force to prevent wheel spin.



Bucket leveling function

The bucket leveling function automatically returns the bucket to level, from both dump and curl positions, helping to reduce operator fatigue.





OPERATOR IN FOCUS

Every element of operator comfort and convenience is considered in the L350H, with a remote controlled door opening, air-conditioning and secondary steering system all as standard. Choose from a range of seats, including the fully adjustable premium seat, available with a 3-point seatbelt. Count on a steering wheel to always be fitted, taking priority over the Comfort Drive Control lever steering.

More uptime, less service costs

Keep working for longer with reduced maintenance requirements and easy service access. Proactive tire monitoring and telematics connectivity keeps downtime to a minimum, getting you back to work without delay.

Extended service intervals

Maintenance is kept to a minimum with a 4 000-hour axle oil change interval — made possible by the external axle oil cooler with filtration. The subsequent 50% reduction in related service time ensures your machine stays on site, working and earning, for longer — while also reducing oil and filters requirements.



Built to last

Minimize machine downtime and increase component life with features including heavy-duty axles with fully floating shafts, planetary hub reduction and maintenance-free rear axle trunnion bearings. Breather filters further help to increase component life and the reinforced upper bearing of the center hinge boasts a heavy-duty design to accommodate the new transmission and axles.



Tire Pressure Monitoring System

Extend tire life and save fuel with the support of the Tire Pressure Monitoring System, part of the Load Assist suite of apps accessed from the Volvo Co-Pilot display. The system enables the pressure and temperature of tires to be monitored from the comfort of the cab.



Get connected, boost uptime

Maximize machine uptime and reduce repair costs with CareTrack telematic system. Choose to keep track of your machine yourself or let us take care of it with ActiveCare, providing 24/7 monitoring and weekly reports. ActiveCare is part of a portfolio of Uptime Services, including maintenance and repair agreements, extended warranties, and more.





DESIGNED FOR EASY SERVICING

Keep uptime to a maximum with improved serviceability. Daily routine checks are made easy as a result of the engine side hood panels and easily accessed cooling package, while all other essential maintenance points can be safely accessed using the surrounding walkway.

Better, faster, stronger

Operator in focus

- Remote-controlled door opening
- Choice of seats available with a 3-point seatbelt
- Secondary steering system
- Comfort Drive Control lever steering
- Choice of three hydraulic modes
- Bucket leveling function
- Electrically adjusted heated rearview mirrors (Option)
- Rearview camera, radar detect system (Option)

Load Assist

Suite of apps accessed from the 10" Volvo Co-Pilot display

- On-Board Weighing
- Operator Coaching
- Tire Pressure Monitoring System



Faster and more fuel efficient

- Up to 10% more productive with new lift/tilt cylinders and increased hydraulic working pressure
- Up to 15% greater fuel efficiency thanks to 3rd generation OptiShift
- Increased tractive force up to 22%, depending on machine gear and engaged speed
- Optimized gear shifting ratio
- Rimpull control
- Compatible with HVO alternative fuel

Built for demanding jobs

- Reinforced upper center hinge bearing
- Updated frames to accommodate new Volvo transmission and axles
- Heavy-duty axles with fully floating shafts planetary hub reduction
- Proven Z-bar lifting arm with double sealing on each of the pins
- Range of Volvo Attachments



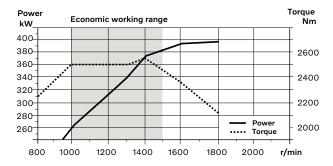
Volvo L350H in detail

Engine

Engine: V-ACT Stage III A/Tier 3, 16 liter, 6-cylinder in-line turbocharged, air-to-air intercooler diesel engine with double rockers and Internal Exhaust Gas Recirculation (I-EGR). One-piece cylinder head with four valves per cylinder and one overhead camshaft. The engine has wet replaceable cylinder liners and replaceable valve guides and valve seats. Mechanically actuated electronically controlled unit injectors. The throttle application is transmitted electrically from the throttle pedal. **Air cleaning:** Three stage cyclone pre-cleaner - primary filter - secondary filter.

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

Engine	Volvo	D16E
Max. power at	r/min	1700 -1800
ECE R120 net	kW	397
	hp	540
ISO 9249, SAE J1349 net	kW	395
	hp	537
Max. torque at	r/min	1400
ECE R120 net	Nm	2 550
ISO 9249, SAE J1349 net	Nm	2 547
Economic working range	r/min	1000 - 1500
Displacement	1	161



Electrical System

Contronic electrical system with central warning light and buzzer for following functions: - Serious engine malfunction - Low steering system

following functions: - Serious engine malfunction - Low steering system pressure - Overspeed warning engine - Interruption in communication (computer error)

Central warning light and buzzer with 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 crankcase pressure - Low transmission oil pressure - High crankcase pressure - Low transmission oil pressure - High crankcase pressure - Low transmission oil pressure - Foregone dealthing transmission oil temperature - Low brake pressure - Engaged parking brake - Brake charging failure - 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	Α	1000
Alternator rating	W/A	2 280/80
Starter motor output	kW	7

Drivetrain

Torque converter: 3-element ,1-stage, 2-phase torque converter with Lock-Up function, and free-wheel stator.

Transmission: Planetary Power Shift transmission with full modulated electronically controlled shifting of 4 gears forward and reverse. Volvo Automatic Power Shift (APS) gear shifting system with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO mode. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling. **Axles:** Fully floating axle shafts with double planetary-type heavy duty hub

reductions. Fixed front axle and oscillating rear axle. **Optional:** Limited-slip differentials in front and rear axle.

Transmission	Volvo	HTL 500
Torque multiplication, stall ratio		2.45
Maximum speed, forward/reverse		
1st gear	km/h	6.9
2nd gear	km/h	12.2
3rd gear	km/h	21.9
4th gear	km/h	37.7
Measured with tires		35/65 R33 L4
Front axle/rear axle		Volvo AHW 91/ AHW 91
Rear axle oscillation	±°	12
Ground clearance	mm	550
at oscillation	0	12

Steering System

Steering system: Load-sensing hydrostatic articulated steering with an

accumulator system and a non-pressurized tank.

System supply: The steering system has priority feed from a load-sensing

axial piston pump with variable displacement.

CDC: Speed dependent electro-hydraulic power steering system with closed center hydrostatic back-up and end-stroke damping.

Steering cylinders		2
Cylinder bore	mm	110
Rod diameter	mm	70
Stroke	mm	595
Working pressure	MPa	27
Maximum flow	l/min	370
Maximum articulation	±°	37

Service Refill

Service accessibility: Large, easy-to-open service doors with gas struts. Swing-out radiator grill. Fluid filters and component breather filters promote long service intervals. A quick-fit adapter on the hydraulic tank provides faster hydraulic oil fill. Possibility to monitor, log, and analyze data to facilitate troubleshooting.

Fuel tank	I	540
Engine coolant	1	73
Hydraulic oil tank	1	365
Transmission oil	1	134
Engine oil	1	55
Axle oil front	1	140
Axle oil rear	1	146

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: Double-acting 2-spool valve. The main valve is controlled by an electric pilot. **Lift function:** The valve has three positions; raise, hold and lower. Inductive/

magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full liftning height.

Tilt function: The valve has three functions; rollback, hold, and dump. Inductive/

magnetic automatic bucket positioner can be switched on and off.

Cylinders: Doubleacting cylinders for all functions.

Filter: Full-flow filtration through 10 micron (absolute) filter cartridge.

Hydraulic oil cooler: Air cooled oil cooler mounted on radiator.

Working pressure maximum, pump 1 for working hydraulic system	MPa	27
Flow	l/min	343
at	MPa	10
engine speed	r/min	1800
Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa	29
Flow	l/min	400
at	MPa	10
engine speed	r/min	1800
Working pressure maximum, pump 3 for brake- and cooling fan system	MPa	26
Flow	l/min	84
at	MPa	10
engine speed	r/min	1800
Cycle times		
Lift	s	7.1
Tilt	S	1.9
Lower, empty	S	4.3
Total cycle time	S	13.3
Raise and tilt cycle times with load according to	o ISO 14397	and SAE

J818

Lift Arm System

Z-bar linkage system with high breakout forces. The lift arms are single plate construction with a high-strength steel cast cross tube. The single bell crank and bucket link are nodular iron castings.

Cylinder bore mm 190
Piston rod diameter mm 110
Stroke mm 1 264
Tilt cylinder 1
Cylinder bore mm 250
Piston rod diameter mm 120
Stroke mm 728

Brake system

Service brake: Service brakes are dual circuit all-hydraulic multidisc brakes with nitrogen-charged accumulators and automatic slack adjusters. Outboard-mounted oil-cooled, wet disc brakes at each wheel. Transmission

disengagement during braking can be preselected in Contronic. **Parking brake:** 3 calliper (dry) spring applied, electro hydraulically released via a swich on dash board. Applies automatically when the key is turned off. **Secondary brake:** Dual circuit axle-by-axle system. Actuated by service brake pedal. Low pressure alarm. Dead engine braking capability provided by three nitrogen charged accumulators.

Standard: The brake system complies with the requirements of ISO 3450:1996.

Number of brake discs per wheel front/rear		10/10
Accumulators	1	9 x 1.0
Accumulators for parking brake	1	1 x 1.0

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, fan with auto function and 11 manually selectable steps, 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 wall and floor. The forces from the retractable seatbelt are absorbed by the seat rails.

Emergency exit: Use emergency hammer to break window

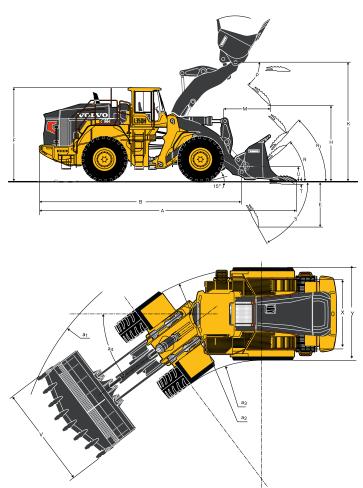
3 7 7		
Ventilation	m³/min	9
Heating capacity	kW	16
Air conditioning	kW	8

Sound Level

Sound pressure level in cab according to ISO 6396/SAE J2105 at fan speed pos 3

∟pA	uБ	12
External sound level according to ISO 6395/SAE J	12104	
L_{WA}	dB	111

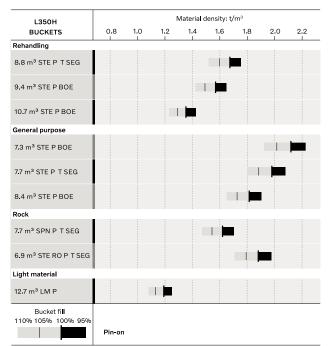
Specifications



		Standard boom	Long boom
В	mm	9 130	9 560
С	mm	4 300	4 300
D	mm	550	550
F	mm	4 180	4 180
F ₁	mm	4 000	4 000
F ₂	mm	3 460	3 460
G	mm	2 135	2 134
J	mm	4 920	5 390
K	mm	5 340	5 810
0	۰	60	58
P _{max}	o	46	45
R	۰	44	45
R ₁ *	o	48	50
S	۰	66	72
т	mm	130	130
U	mm	620	750
X	mm	3 200	3 200
Υ	mm	4 100	4 100
Z	mm	4 470	4 890
a ₂	mm	8 480	8 480
a ₃	mm	4 380	4 380
a ₄	±°	37	37

*Carry position SAE

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



How to read bucket fill factor

Bucket Selection Chart

The volume handled varies with the bucket fill and is often greater than indicated by the bucket's ISO/SAE volume. The table shows optimum bucket choice with regard to the material density.

Material	Bucket fill, %	Material density, t/m ³
Earth	110-115	1.4-1.6
Clay	110-120	1.4-1.6
Sand	100-110	1.6-1.9
Gravel	100-110	1.7-1.9
Rock	75-100	1.5-1.9

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

Supplemental Operating Data					
	NAC della consu		Static tipping load, full turn		
	Width over tires	Ground clearance	Operating weight	Standard boom	Long boom
	mm	mm	kg	kg	kg
35/65 R33 Michelin XMine D2** L5	+20	-20	-220	-220	-200
35/65 R33 Bridgestone VSDL IDU** L5	-20	-10	-240	-220	-200
35/65 R33 Bridgestone VSNT** L4	0	-20	-800	-520	-470
36/65 R33 Michelin XTXL*** L4	0	-40	-1 350	-880	-790

Specifications

L35	ОН										
		Rehandling ¹		General purpose ²		Rock ²		Light material ³			
Stai	ndard boom										
			8.8 m³ STE P BOE	9.4 m³ STE P BOE	10.7 m ³ STE P BOE	7.3 m³ STE P BOE	7.7 m³ STE P T SEG	8.4 m³ STE P BOE	6.9 m³ STE P T SEG	7.7 m³ SPN P T SEG	12.7 m ³ LM P
Vol	ume heaped ISO/SAE	m³	8.8	9.4	10.7	7.3	7.7	8.4	6.9	7.7	12.7
Vol	ume at 110% fill factor	m³	9.7	10.3	11.8	8.0	8.5	9.2	7.6	8.5	14.0
Sta	itic tipping load, straight machine	kg	43 120	42 810	42 180	39 640	38 970	39 090	39 210	37 840	37 500
Sta	itic tipping load at 35°. Turn	kg	38 280	37 990	37 370	35 350	34 690	34 820	34 930	33 580	33 290
Sta	itic tipping load at full turn	kg	37 720	37 440	36 830	34 860	34 200	34 340	34 440	33 100	32 820
Bre	eakout force	kN	404	390	363	464	448	429	465	353	388
Α	Overall length	mm	11 100	11 180	11 330	10 840	11 270	10 980	11 200	11 740	11 170
Е	Digging depth, max dump (S)	mm	1 710	1 770	1 910	1 470	1840	1590	1790	2 260	1780
H ⁴	Dump clearance	mm	3 690	3 640	3 530	3 880	3 590	3 780	3 630	3 270	3 630
L	Overall operating height	mm	7 300	7 380	7 540	7 120	7 180	7 290	7 310	7 410	7 670
M ⁴	Dump reach	mm	1830	1880	1980	1650	1930	1 750	1880	2 280	1890
N ⁴	Reach at 45° discharge, Pos. G	mm	2 700	2 740	2 810	2 580	2 770	2 650	2 740	3 010	2 700

3 970

18 390

3 970

18 480

53 690

3 970

18 210

51 060

3 970

18 450

18 290

3 970

18 400

4 110

18 830

4 500

18 860

51 420

Outer clearance circle (diameter)

Bucket width

Operating weight without load

Note: This only applies to genuine Volvo attachments. Measured at 45° dump angle. (Spade nose buckets at 42°.)

mm

mm

kg

3 970

18 350

53 220



 $^{^1}$ Calculated with 875/65 R33 Bridgestone VSNT** L4 tires and Rehandling counterweight.

 $^{^{2}}$ Calculated with 875/65 R33 Goodyear RL-5K*** L5 tires.

 $^{^{3}}$ Calculated with 875/65 R33 Bridgestone VSNT** L4 tires.

⁴ Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge.

Note	12.7 m³ LM P 12.7 14.0
STE P BOE STE P SEG SEG	LM P
Volume at 110% fill factor m³ 9.7 10.3 11.8 8.0 8.5 9.2 7.6 8.5 Static tipping load, straight machine kg 35 500 35 230 34 670 37 290 36 650 36 790 36 870 35 580 Static tipping load at 35°. Turn kg 31 410 31 150 30 610 33 130 32 490 32 640 32 710 31 450 Static tipping load at full turn kg 30 940 30 690 30 150 32 660 32 020 32 170 32 240 30 980 Breakout force kN 367 354 330 421 407 390 422 321 A Overall length mm 11 520 11 600 11 750 11 250 11 680 11 400 11 620 12 150 E Digging depth, max dump (S) mm 1 780 1 840 1 980 1 530 1 910 1 650 1 850 2 350	
Static tipping load, straight machine kg 35 500 35 230 34 670 37 290 36 650 36 790 36 870 35 580 Static tipping load at 35°. Turn kg 31 410 31 150 30 610 33 130 32 490 32 640 32 710 31 450 Static tipping load at full turn kg 30 940 30 690 30 150 32 660 32 020 32 170 32 240 30 980 Breakout force kN 367 354 330 421 407 390 422 321 A Overall length mm 11 520 11 600 11 750 11 250 11 680 11 400 11 620 12 150 E Digging depth, max dump (S) mm 1 780 1 840 1 980 1 530 1 910 1 650 1 850 2 350	14.0
Static tipping load at 35°. Turn kg 31 410 31 150 30 610 33 130 32 490 32 640 32 710 31 450 Static tipping load at full turn kg 30 940 30 690 30 150 32 660 32 020 32 170 32 240 30 980 Breakout force kN 367 354 330 421 407 390 422 321 A Overall length mm 11 520 11 600 11 750 11 250 11 680 11 400 11 620 12 150 E Digging depth, max dump (S) mm 1 780 1 840 1 980 1 530 1 910 1 650 1 850 2 350	
Static tipping load at full turn kg 30 940 30 690 30 150 32 660 32 020 32 170 32 240 30 980 Breakout force kN 367 354 330 421 407 390 422 321 A Overall length mm 11 520 11 600 11 750 11 250 11 680 11 400 11 620 12 150 E Digging depth, max dump (S) mm 1 780 1 840 1 980 1 530 1 910 1 650 1 850 2 350	35 290
Breakout force kN 367 354 330 421 407 390 422 321 A Overall length mm 11 520 11 600 11 750 11 250 11 680 11 400 11 620 12 150 E Digging depth, max dump (S) mm 1 780 1 840 1 980 1 530 1 910 1 650 1 850 2 350	31 200
A Overall length mm 11 520 11 600 11 750 11 250 11 680 11 400 11 620 12 150 E Digging depth, max dump (S) mm 1 780 1 840 1 980 1 530 1 910 1 650 1 850 2 350	30 740
E Digging depth, max dump (S) mm 1780 1840 1980 1530 1910 1650 1850 2350	352
33 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 590
H ³ Dump clearance mm 4 160 4 110 4 000 4 350 4 060 4 250 4 100 3 750	1850
	4 120
L Overall operating height mm 7 770 7 850 8 010 7 590 7 650 7 760 7 780 7 880	8 140
M³ Dump reach mm 1830 1880 1990 1660 1940 1760 1890 2 290	1920
N³ Reach at 45° discharge, Pos. G mm 3 060 3 090 3 160 2 930 3 130 3 000 3 100 3 380	3 050
V Bucket width mm 3 970 3 970 3 970 3 970 3 970 3 970 4 110	4 500
a ₁ Outer clearance circle (diameter) mm 18 690 18 740 18 830 18 550 18 790 18 630 18 750 19 190	19 200
Operating weight without load kg 52 430 52 580 52 900 52 690 53 130 52 980 53 050 53 820	53 060

¹ Calculated with 875/65 R33 Bridgestone VSNT** L4 tires and Long Boom counterweight.

² Calculated with 875/65 R33 Goodyear RL-5K*** L5 tires and Long Boom counterweight.

³ Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge.

Note: This only applies to genuine Volvo attachments. Measured at 45° dump angle. (Spade nose buckets at 42°.)



Equipment

STANDARD EQUIPMENT

Engine

Three stage air cleaner, pre-cleaner, primary and secondary filter

Indicator glass for coolant level

Preheating of induction air

Fuel pre-filter with water trap

Fuel filter

Crankcase breather oil trap

Drivetrain

Automatic Power Shift (APS) with operator controlled transmission disengagement when braking and mode selector with AUTO mode

Fully automatic gear shifting, 1-4

Pulse Width Modulation (PWM) controlled gear shifting

Torque converter with Lock-Up

Automatic Lock-Up shifting, 2-4 (gear selector in 4), 2 (gear selector in 2) and 1 (gear selector in 1)

Forward and reverse switch by hydraulic lever console

Rimpull control

Axle oil cooler

Indicator glass for transmission oil level

Electrical System

24 V, pre-wired for optional accessories

Alternator 24V/80A

Battery disconnect switch with removable key

Fuel gauge

Hour meter

Electric horn

Instrument cluster:

Fuel level

Transmission temperature

Coolant temperature

Instrument lighting

Lighting:

- Twin halogen front headlights with high and low beams
- Parking lights
- Double brake and tail lights
- Turn signals with flashing hazard light function
- Work lamp, front on cab, 2 Halogen lamps, std
- Work lamp, rear in grille, 4 Halogen lamps, std

STANDARD EQUIPMENT

Contronic monitoring system

Monitoring and logging of machine data

Contronic display

Fuel consumption

Ambient temperature

Clock

rake test

Test function for warning and indicator lights

Warning and indicator lights:

Battery charging

Parking brake

Warning and display message:

- 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
- Parking brake NOT applied
- Brake charging
- Overspeed at direction change
- Axle oil temperature
- Steering pressure
- Crankcase pressure

Level warnings:

- Low fuel level
- Engine oil level
- Engine coolant level
- Transmission oil level
- Hydraulic oil levelWasher fluid level

Engine torque reduction in case of malfunction indication:

- High engine coolant temperature
- High engine oil temperature
- Low engine oil pressure
- High crankcase pressure

- High charge-air temperature

Engine shutdown to idle in case of malfunction indication:

- High transmission oil temperature
- Slip in transmission clutches

Keypad, background lit

Start interlock when gear is engaged

STANDARD EQUIPMENT

Hydraulic system

Main valve, double-acting 2-spool with electric pilots

Variable displacement axial piston pumps (3) for:

Steering system, working hydraulics

Secondary steering with automatic test function

Working hydraulics, brakes

Cooling fan, brakes

Electric-hydraulic servo control

Electric level lock

Boom kick-out, automatic, adjustable from cab

Return-to-dig, automatic, adjustable from cab

Bucket positioner, automatic, adjustable from cab

Double-acting hydraulic cylinders with end-damping

Indicator glass for hydraulic oil level

Hydraulic oil cooler

Brake system

Wet oil circulation-cooled disc brakes on all four wheels

Dual brake circuits

Dual brake pedals

Secondary brake system

Parking brake, electric-hydraulic

Brake wear indicators

Cab

ROPS (ISO 3471), FOPS (ISO 3449)

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 climate control (ACC)

Floor mat

Interior light

Rear view mirror, interior

Dual exterior rear-view mirrors

Sliding window, right side

Tinted safety glass

Seat-mounted adjustable lever console, working hydraulics

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

Service platforms with slip protected surfaces on front and rear fenders

Comfort Drive Control (CDC)

Remote door opener

STANDARD EQUIPMENT

Service and maintenance

Engine oil remote drain and fill

Transmission oil remote drain and fill

Grouped lubrication points, ground accessible

Pressure check connections: transmission and hydraulic, quick-connect, grouped on console for easy access

Quick-fit hydraulic oil fill

Tool box, lockable

Wheel nut wrench kit

External equipment

Fenders, front with rubber extensions

Viscous cab mounts

Rubber engine and transmission mounts

Lifting eyes

Easy-to-open side panels with gas struts

Frame, joint lock

Vandalism lock prepared for:

- Batteries
- Engine compartment
- Radiator

Tie-down eyes

Recovery eyes

Tow hitch

Equipment

OPTIONAL EQUIPMENT

Engine

Air pre-cleaner, oil-bath type

Air pre-cleaner, cyclone type

Cooling package: Radiator and charge air cooler, corrosion-protected

Engine block heater, 230 V

Engine block heater, 120V, USA

Engine auto shutdown

Volvo Engine Brake system - VEB

Hand throttle control

Fuel fill strainer

Fast fill fuel system

Fuel heater

Reversible cooling fan

Max. fan speed, hot climate

Drivetrain

Limited Slip, front and rear axle

Limited Slip, rear axle

Transmission oil heater

Speed limiter, 20 km/h

Speed limiter, 30 km/h

Electrical System

Travel lights:

Cab heater, power outlet 240V

Warning beacon LED

Warning beacon LED automatic

LED Economy package

LED Feature Package

LED Power Package

LED working lights, attachments

Halogen Economy package

Halogen Feature package

Halogen working lights, attachments

Warning beacon(flasher), LED

Reverse warning light, Strobe

Reverse alarm, audible, multi-frequency (white noise)

Reverse alarm, audible

Seatbelt indicator, external

Jump start connector, ISO type

Emergency stop

Electrical distribution unit 24 volt

Alternator 120 amp, heavy-duty

Anti-theft device

Max Boom height

Can Bus Interface

Delayed Engine Shutdown

Co Pilot available

Rearview camera in Co pilot

OnBoard Weighing

Tire Pressure Monitoring System

Connected Map

OPTIONAL EQUIPMENT

Hydraulic system

Boom suspension system with single-acting lift function

Arctic kit, pilot hoses, brake accumulators and hydraulic oil

Hydraulic 2 functions, Single lever control

Hydraulic 3 functions, Single lever control

3rd electro-hydraulic function

3rd electro-hydraulic function for long boom

Attachment bracket

Separate attachment locking

Biodegradable hydraulic fluid

Fire-resistant hydraulic fluid

Hot climate hydraulic fluid

Mineral oil for cold climate

Cab

Radio with Bluetooth/USB/AUX

DAB Radio

Radio installation kit incl. 11 A, 12 V outlet, left side

Radio installation kit incl. 11 A, 12 V outlet, right side

Rear-view camera incl. monitor, colour

Forward camera, colour

Rear-view mirrors, electrically adjustable and heated

Asbestos dust protection filter

Carbon filter

Automatic climate control panel, with Fahrenheit scale

Lunchbox holder

Universal key EU

Universal key US

Steering wheel knob

Sun blind, rear window

Sun blind, side windows Timer cab heating

Window sliding, door

Operator's seat, Volvo air susp, heavy-duty, high back, heat, for CDC

Parking brake alarm, audible for air susp seats

Operator's seat, Premium Comfort

Operator's seat, Premium Comfort ISRI 3-point seat belt

Operator's seat, (air seat std) 3-point seat belt and CDC

Ashtray

Anchorage for Operator's manual

Forward view mirror

Service and maintenance

Tool kit

Automatic lubrication system

Automatic lubrication system for long boom

Refill pump for automatic lubrication system

Oil sampling valve

OPTIONAL EQUIPMENT

Protective equipment

Guards for front headlights

Tail light guards, heavy-duty

Guards for tail lights, heavy-duty

Guards for rear work lights

Radiator grille guard

Cab roof, heavy duty

Windows, side and rear guards

Windshield guard

Belly guard, front

Belly guard, rear

Fire extinguisher

Bracket for fire extinguisher

External equipment

Long boom

Fire suppression system

Other equipment

Counterweight, re-handling

Counterweight, signal painted, chevrons

Logger version

Block handler kit

Block handler kit, heavy-duty

CE-marking

Decals, USA

Sound decal, EU

Cleaner kit, with air blow gun (Stage V)

Reflecting stickers (stripes), machine contour Cab

Option for machines without dinitrol

CareTrack

OPTIONAL EQUIPMENT

Tires and Rims

35/65 R33 (875/65 R33):

- L5

Rims, 33-28.00/3,5:

- Five piece, heavy-duty

Attachments

Buckets (pin-on):

- Rock, straight edge
- Rock, spade nose
- Rock, side-dump, spade nose
- General purpose, straight edge
- Rehandling bucket, straight edge
- Light material, straight edge

Wear parts:

- Adapters for teeth, weld-on
- Teeth
- Segments, bolt-on
- Edge savers, bolt-on (reversible)

Block handling equipment (hook-on):

- Rock bucket, spade nose
- Stone fork
- Breaker tine

- Rake

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Boom Suspension System, gear or speed selected



Limited slip differentials



Long boom



Fire Suppression System



Fast fill fueling system



Radar Detect System



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.

V O L V O