



Volvo Construction Equipment

L250H

Volvo Wheel Loaders 33.4-39.0 t 405 hp



A passion for performance

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

Helping you to do more.

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

Designed to fit your needs.

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



You learn a lot in 180 years.

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

We're on your side.

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

We have a passion for performance.



Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services



OptiShift

Volvo's OptiShift technology combines the company's patented Reverse By Braking (RBB) technology, with lock-up available from first to fourth gear, to boost productivity and efficiency in all applications. Lock-up creates a direct drive between the engine and transmission – eliminating power losses in the torque converter and reducing fuel consumption by up to 18%.

An efficient operation.

Innovation is at the core of Volvo Construction Equipment. That's why our engineers are developing clever innovations to make equipment more fuel efficient while reducing emissions and environmental impact. OptiShift technology – a unique technical advancement which reduces fuel consumption by up to 18% and increases performance in wheel loaders – is just one example of this.

Reverse By Braking (RBB)

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



Intelligent hydraulics

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



Eco pedal

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

Fully loaded.

The new L250H from Volvo is a high production machine designed to increase your productivity and profitability in applications including quarry, aggregates, mining and heavy infrastructure. Experience short cycle times, high breakout force and excellent controllability with this heavy-duty machine.

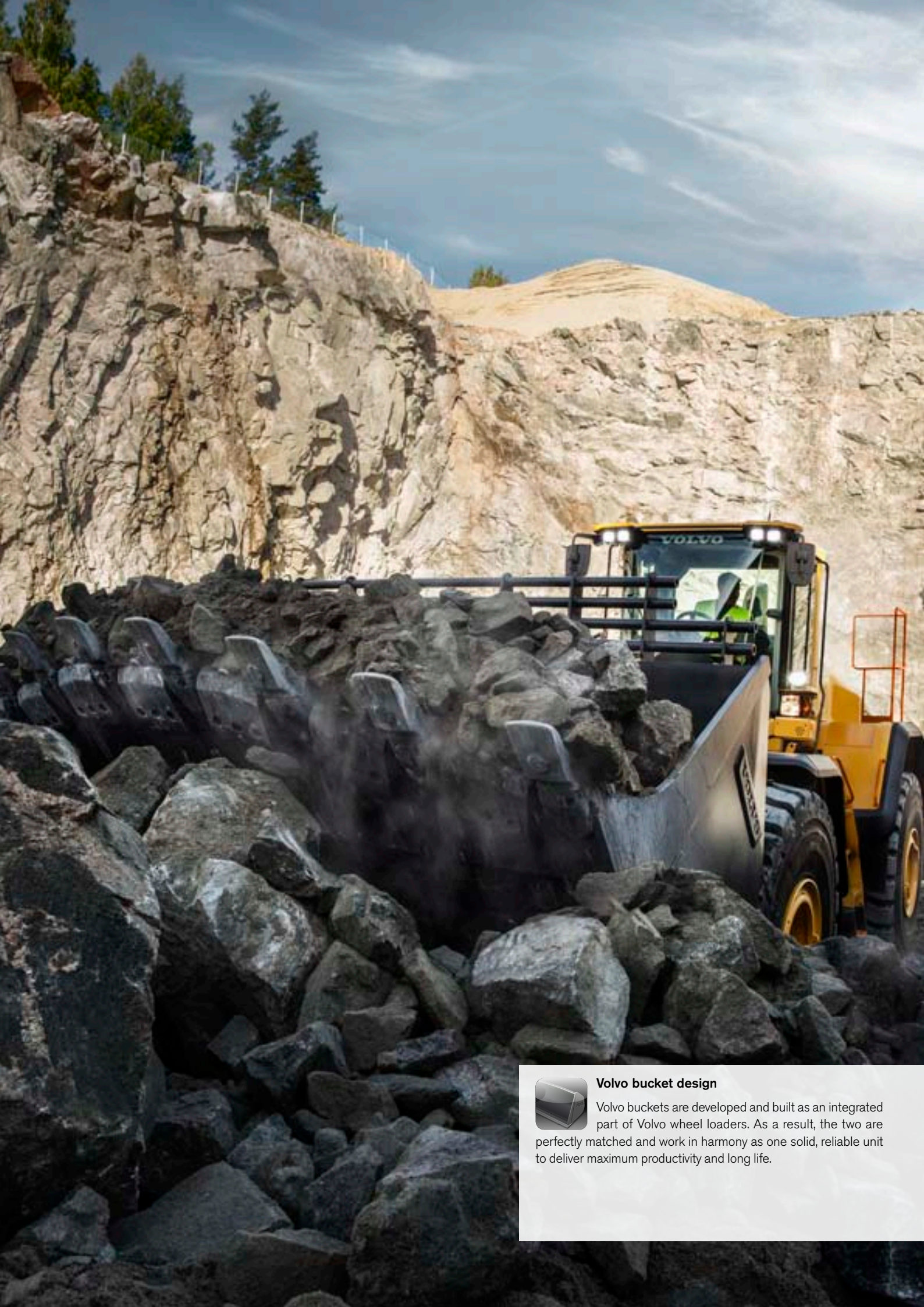
Z-bar linkage

Volvo's proven Z-bar linkage provides high breakout force for strong, powerful digging in hard materials. The high lift capacity enables fully loaded buckets to be elevated to maximum height. Fast hydraulic speeds deliver quick load cycles, increasing productivity even in the toughest environments.



Boom Suspension System

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



Volvo bucket design

Volvo buckets are developed and built as an integrated part of Volvo wheel loaders. As a result, the two are perfectly matched and work in harmony as one solid, reliable unit to deliver maximum productivity and long life.



Powertrain

The ideally-matched, all-Volvo powertrain has been built to work together in perfect harmony. The Volvo design has been rigorously tested to deliver optimized performance, high productivity, low fuel consumption and superior reliability. This long-established and proven technology has been built by Volvo for 40 years, including all in-house components and parts.

Heavy-duty for heavy duties.

If you're looking for a strong, durable and reliable wheel loader to handle heavy-duty applications then look no further than the L250H. Powered by a premium Volvo engine, this robust machine provides the strength and reliability you need to optimize your operation.

Volvo engine

Featuring advanced technology and built on decades of experience, the powerful Volvo engine delivers high performance and low fuel consumption. The water cooled turbocharger increases engine life and performance.



Cooling on demand

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



Contronic and electronic systems

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

Axle oil circulation

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



Smart service access.

At Volvo we know that on site, time means money. That's why the L250H is fitted with a tilting cab – a feature which significantly improves service and maintenance access to give you more uptime. This is just one example of the many time-saving features Volvo incorporates into its machines. Trust Volvo to maintain your uptime.

Maintenance-free batteries

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



Grouped and ground level greasing points

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



Maintaining a smooth operation

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



Engine access

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



Tilting cab

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

Loaded with innovation.



Volvo cab

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



OptiShift

Volvo's OptiShift technology reduces fuel consumption by up to 18%, increases operator comfort and reduces stress in the drivetrain.

Z-bar linkage

Volvo's proven Z-bar linkage provides high breakout force for strong, powerful loading in hard materials.



Volvo bucket design

Volvo buckets are perfectly matched to Volvo machines – together they work in harmony as one solid, reliable unit to deliver maximum productivity.

Boom Suspension System (BSS)

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

Intelligent hydraulics

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



Powertrain

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



Single lever

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

Volvo engine

The Volvo engine delivers high performance and low fuel consumption.

Easy service access

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



Tilting cab

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



Volvo cab

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

Comfort increases productivity.

Spacious, comfortable, safe and quiet – those are just some of the words that describe Volvo's industry-leading cab. With ideally located controls, a comfortable seat and ample space for storage, it's no wonder that operators feel content and productive throughout the shift in a Volvo machine.

Visibility

Volvo offers a variety of options to improve safety and visibility when working in the dark. This includes reflectors which follow the contour of the machine, LED entrance lights illuminating the cab for safe entry/exit and additional LED work lamps to increase visibility around the machine. All machine lights are available as LED through Volvo's light packages, which increases lifetime of the light and saves energy.

Information panel

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



Cab air filter

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

Single lever control

For ease of operation, the optional, multi-functional joystick gives the operator simultaneous and precise control of the hydraulic functions.

Adding value to your business.

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



Complete Solutions

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

CareTrack

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



Genuine Volvo Parts

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



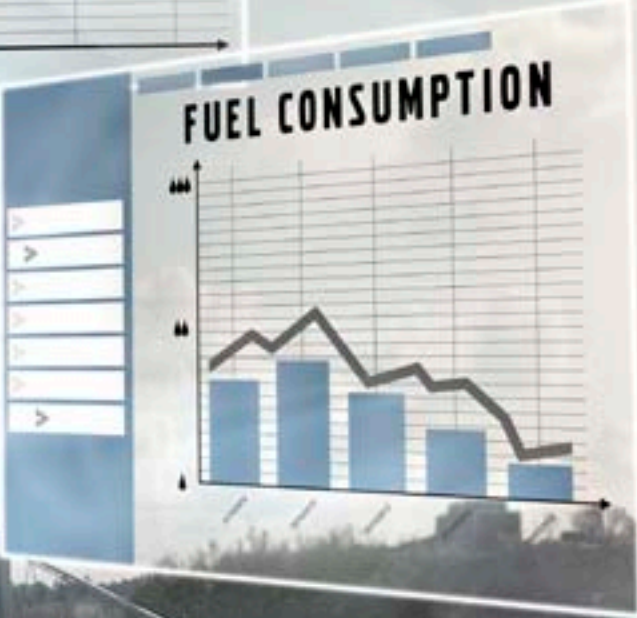
Service Network

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



SERVICE PLAN

DAY01	DAY02	DAY03	DAY04	DAY05	DAY06	DAY07
						✓
			✓	✓		
	✓				✓	✓
		✓				
✓						
		✓				



Customer Support Agreements

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

Volvo L250H in detail.

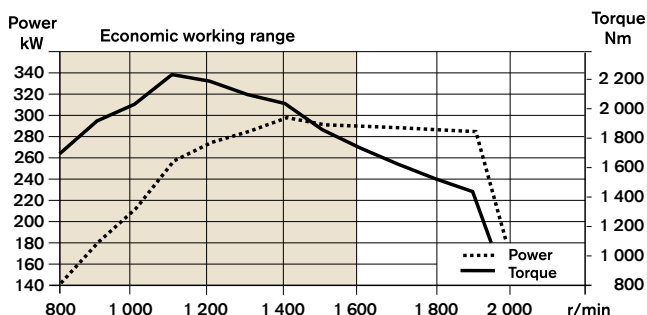
Engine

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: 2 stages.

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

Engine		D13F
Max power at	r/s (r/min)	25.0 (1 500)
SAE J1995 gross	kW / hp	298 / 405
ISO 9249, SAE J1349 net	kW / hp	296 / 402
Max torque at	r/s (r/min)	18.3 (1 100)
SAE J1995 gross	Nm	2 231
ISO 9249, SAE J1349 net	Nm	2 220
Economic working range	r/min	800 - 1 600
Displacement	l	12.8



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: Fully sealed, wet multi-disc brake built into the transmission. 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.

Number of brake discs per wheel (front)		2
Accumulators	l	2 x 1.0 + 1 x 0.5

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	A	1 000
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 shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO.

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

Transmission	Volvo	Volvo HTL307
		2.094:1
	1st gear	km/h
		7
Maximum speed, forward/reverse	2nd gear	km/h
		11.5
	3rd gear	km/h
		24.5
	4th gear	km/h
		38
Measured with tires		29.5R25 L4
Front axle/rear axle		AWB 50B / 41
Rear axle oscillation ±	°	15
Ground clearance at 15° osc.	mm	600

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").

Sound level in cab according to ISO 6396/SAE J2105

LpA	dB(A)	70
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External sound level according to ISO 6395/SAE J2104

LwA	dB(A)	109
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Ventilation	m ³ /min	9
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Heating capacity	kW	16
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Air conditioning (optional)	kW	7.5
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Steering system

Steering system: Load-sensing, hydrostatic articulated steering.

System supply: The steering system has priority feed from a load-sensing axial piston pump with variable displacement.

Steering cylinders: Two double-acting cylinders.

Cylinder bore	mm	100
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Piston rod diameter	mm	60
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Stroke	mm	525
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Working pressure	MPa	21.0 ± 0.35
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Maximum flow	l/min	202
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Maximum articulation	± °	37
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Service

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

Fuel Tank	l	366
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Engine coolant	l	55
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Hydraulic oil tank	l	226
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Transmission oil	l	48
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Engine oil	l	50
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Axle oil front/rear	l	78 / 80
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Lift arm system

Z-bar		
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Cylinders lift		2
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Cylinder bore	mm	190
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Piston rod diameter	mm	100
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Stroke	mm	873
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Cylinder tilt		1
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Cylinder bore	mm	220
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Piston rod diameter	mm	120
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Stroke	mm	570
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Hydraulic system

System supply: Two load-sensing axial piston pumps with variable displacement. The steering system always has priority.

Valves: Double-acting 2-spool valve. The main valve is controlled by a 2-spool pilot valve.

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

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

Cylinders: Double-acting cylinders for all functions.

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

Working pressure maximum, pump 1	MPa	29.0 ± 0.5
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Flow	l/min	252
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at	MPa	10
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engine speed	r/s(r/min)	32 (1 900)
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Working pressure maximum, pump 2	MPa	31.0 ± 0.5
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Flow	l/min	202
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at	MPa	10
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engine speed	r/s(r/min)	32 (1 900)
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Working pressure maximum, pump 3	MPa	25.0 ± 0.5
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Flow	l/min	83
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at	MPa	10
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engine speed	r/s(r/min)	32 (1 900)
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Pilot system	MPa	3.2 - 4.0
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Cycle times		
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Lift	s	7.1
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Tilt	s	1.9
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Lower, empty	s	4.1
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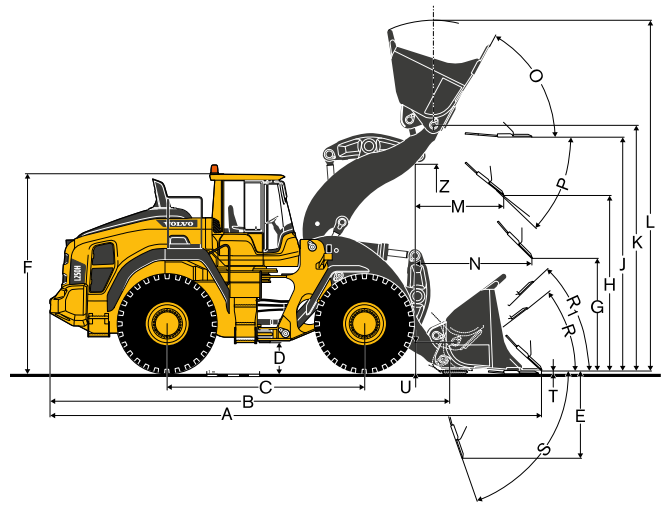
Total cycle time	s	13.1
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Specifications.

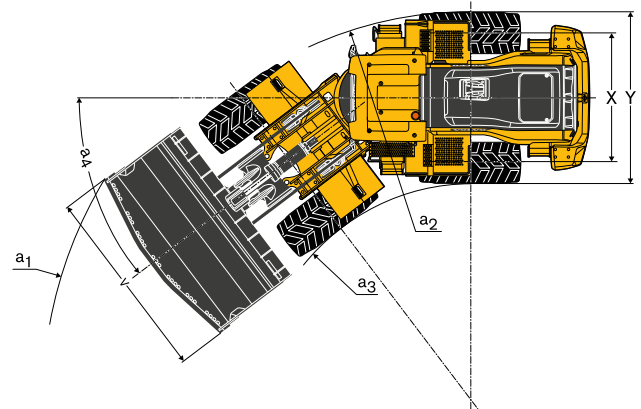
Tires L250H: 29.5 R25 L4

		Standard boom	Long boom
A	mm	9 490	9 800
B	mm	7 530	7 800
C	mm	3 750	3 750
D	mm	540	540
E	mm	1 790	1 890
F	mm	3 740	3 730
F ₁	mm	3 630	3 630
F ₂	mm	2 850	2 840
G	mm	2 132	2 133
H	mm	3 140	3 490
J	mm	4 340	4 700
K	mm	4 640	5 000
L	mm	6 330	6 680
M	mm	1 670	1 640
N	mm	2 340	2 610
O	°	62	57
P ₂	°	45	45
P	°	47	47
R	°	41	43
R ₁	°	48	51
S	°	75	81
S ₁	°	42	46
T	mm	129	197
U*	mm	540	620
V	mm	3 580	3 580
X	mm	2 400	2 400
Y	mm	3 170	3 170
Z	mm	3 940	4 150
a ₁	mm	15 860	16 060
a ₂	mm	7 110	7 110
a ₃	mm	3 950	3 950
a ₄	°	37	37










* Carry position SAE
Bucket: 5.7 m³ STE P T SEG



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



L250H

Tires 29.5 R25 L4	REHANDLING		GENERAL PURPOSE			ROCK***			LIGHT MATERIAL	LONG BOOM*	
											
	6.1 m³ STE P BOE	6.9 m³ STE P BOE	5.7 m³ STE P T SEG	6.4 m³ STE P T SEG	6.4 m³ STE P BOE	5.5 m³ STE P T SEG	5.5 m³ SPN P T SEG	6 m³ SPN P T SEG	10.2 m³ LM P		
Volume, heaped ISO/SAE	m³	6.1	6.9	5.7	6.4	6.4	5.5	5.5	6.0	10.2	-
Volume at 110% fill factor	m³	6.7	7.6	6.3	7.0	7.0	6.1	6.1	6.6	11.2	-
Static tipping load, straight	kg	27 590	27 260	25 640	25 370	25 601	26 310	25 790	25 350	24 680	-3 050
at 35° turn	kg	24 520	24 200	22 760	22 500	22 733	23 390	22 860	22 440	21 810	-2 760
at full turn	kg	24 170	23 860	22 440	22 180	22 406	23 060	22 530	22 110	21 490	-2 740
Breakout force	kN	311.8	291.0	323.4	298.7	303.9	330.9	277.1	265.2	251.9	-28
A	mm	9 230	9 350	9 490	9 600	9 280	9 410	9 740	9 840	9 610	310
E	mm	1 560	1 670	1 790	1 890	1 600	1 710	2 020	2 110	1 930	100
H**)	mm	3 320	3 230	3 140	3 060	3 280	3 200	2 980	2 910	3 010	350
L	mm	6 490	6 610	6 330	6 440	6 440	6 680	6 680	6 740	7 030	350
M**)	mm	1 520	1 610	1 670	1 750	1 550	1 620	1 860	1 930	1 770	-30
N**)	mm	2 270	2 320	2 340	2 390	2 290	2 320	2 460	2 490	2 390	270
V	mm	3 580	3 580	3 580	3 580	3 580	3 580	3 580	3 580	3 700	-
a ₁ clearance circle	mm	15 740	15 800	15 860	15 910	15 760	15 830	16 000	16 040	16 060	-
Operating weight	kg	34 560	34 720	33 980	34 120	33 970	34 900	35 280	35 250	34 790	-80

*) Measured with 5.7 m³ GP STE P T SEG bucket

***) Measured to the tip of the bucket teeth or bolt-on edge.

*) Measured with 5.7 m³ GP STE P T SEG bucket

***) Measured to the tip of the bucket teeth or bolt-on edge.

*) Measured with 5.7 m³ GP STE P T SEG bucket

*) Measured with 29.5 R25 L5 tire

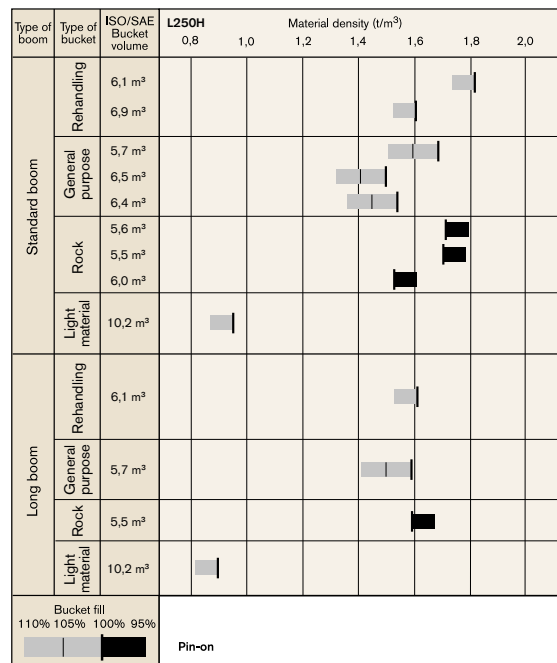
Note: This only applies to genuine Volvo attachments.

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/m³
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

Tires 29.5 R25 L4	Standard boom		Long boom		
	29.5 R25 L5	875/65R29 L3	29.5 R25 L5	875/65R29 L3	
Width over tires	mm	35	95	35	95
Ground clearance	mm	40	-10	40	-20
Tipping load, full turn	kg	1 010	180	930	180
Operating weight	kg	1 490	650	1 500	650

Equipment.

STANDARD EQUIPMENT

Service and maintenance

Engine oil remote drain and fill
 Transmission oil remote drain and fill
 Lubrication manifolds, ground accessible
 Pressure check connections: transmission and hydraulic, quick-connects
 Tool box, lockable

Engine

Two stage air cleaner, pre-cleaner, primary and secondary filter
 Indicator for coolant level
 Preheating of induction air
 Fuel pre-filter with water trap
 Fuel filter
 Crankcase breather oil trap
 Exterior radiator air intake protection

Electrical system

24 V, pre-wired for optional accessories
 Alternator 24V/80A/2280W
 Battery disconnect switch
 Fuel gauge
 Hour meter
 Electric horn
 Instrument cluster:
 Fuel level
 Diesel Exhaust Fluid/AdBlue level
 Transmission temperature
 Coolant temperature
 Instrument lighting
 Lighting:
 Twin halogen front headlights with high and low beams
 Parking lights
 Double brake and tail lights
 Turn signals with flashing hazard light function
 Halogen work lights (2 front and 2 rear)
 Contronic monitoring system
 Monitoring and logging of machine data
 Contronic display
 Fuel consumption
 Diesel Exhaust Fluid/AdBlue consumption
 Ambient temperature
 Clock
 Test function for warning and indicator lights
 Brake test
 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
 Engine coolant level
 Transmission oil level
 Hydraulic oil level
 Washer fluid level

Electrical system

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

Drivetrain

Automatic Power Shift
 Fully automatic gearshifting, 1-4
 PWM-controlled gearshifting
 Forward and reverse switch by hydraulic lever console
 Indicator glass for transmission oil level
 Differentials: Front, 100% hydraulic diff lock. Rear, conventional.
 OptiShift
 Lock-up first gear

Brake system

Dual brake circuits
 Dual brake pedals
 Secondary brake system
 Parking brake, electro-hydraulic
 Brake wear indicators

Cab

ROPS (ISO 3471), FOPS (ISO 3449)
 Single key kit door/start
 Acoustic inner lining
 Cigarette lighter, 24 V power outlet
 Lockable door
 Cab heating with fresh air inlet and defroster
 Fresh air inlet with two filters
 Automatic heat control
 Floor mat
 Dual interior lights
 Interior rear-view mirrors
 Dual exterior rear-view mirrors
 Sliding window, right side
 Tinted windshield glass
 Retractable seatbelt (SAE J386)
 Adjustable steering wheel
 Storage compartment
 Document pocket
 Sun visor
 Beverage holder
 Windshield washer front and rear
 Windshield wipers front and rear
 Interval function for front and rear wipers

Hydraulic system

Main valve, double acting 2-spool with hydraulic pilots
 Variable displacement axial piston pumps (3) for:
 1 Working hydraulics, Pilot hydraulics and Brake system
 2 Working hydraulics, Pilot hydraulics, Steering and Brake system
 3 Cooling fan and Brake system
 Electro-hydraulic servo controls
 Electronic hydraulic lever lock
 Automatic boom kick-out
 Automatic bucket positioner
 Double-acting hydraulic cylinders
 Indicator glass for hydraulic oil level
 Hydraulic oil cooler

External equipment

Orange hand rails
 Fenders, front and rear
 Viscous cab mounts
 Rubber engine and transmission mounts
 Frame, joint lock
 Vandalism lock prepared for
 Engine compartment
 Radiator grille
 Lifting eyes
 Tie-down eyes
 Fabricated counterweight
 Counterweight, pre-drilled for optional guards

OPTIONAL EQUIPMENT

Service and maintenance

Automatic lubrication system
 Automatic lubrication system for long boom
 Oil sampling valve
 Refill pump for grease to lube system
 Tool kit
 Wheel nut wrench kit
 CareTrack, GSM, GSM/Satellite
 Telematics, Subscription

Engine

Air pre-cleaner, cyclone type
 Air pre-cleaner, oil-bath type
 Air pre-cleaner, turbo type
 Engine auto shutdown
 Engine block heater 230V/110V
 Fuel fill strainer
 Fuel heater
 Hand throttle control
 Max. fan speed, hot climate
 Radiator, corrosion-protected
 Reversible cooling fan
 Reversible cooling fan and axle oil cooler

OPTIONAL EQUIPMENT

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
Reduced function working lights, reverse gear activated
Reverse alarm, audible
Reverse alarm, audible, multi-frequency
Reverse warning light, strobe lighting
Shortened headlight support brackets
Side marker lamps
Warning beacon LED
Working lights halogen, attachments
Working lights LED, attachments
Working lights on cab halogen, front and rear
LED Head Light
Working lights, on cab LED, front and rear
Working lights, rear in grille, 2 LED lamps
Working lights, front above head lamps, 2 LED lamps
Taillight, LED lamp
Electrical distribution unit 24 volt
Load Assist
Radar detect system
Jump start connector, NATO-Type

Cab

Anchorage for Operator's manual
Automatic Climate Control, ACC
ACC control panel, with Fahrenheit scale
Asbestos dust protection filter
Ashtray
Cab air pre-cleaner, cyclone type
Carbon filter
Cover plate, under cab
Lunch box holder
Volvo Armrest, operator's seat, left
Operator's seat, Volvo air susp, heavy-duty, high back, heated
Operator's seat, (air seat std) 2-point seat belt
Operator's seat, (air seat std) 3-point seat belt
Radio installation kit incl. 12 volt outlet, left side
Radio installation kit incl. 12 volt outlet, right side
Radio (with AUX, Bluetooth and USB connection)
Subwoofer
Steering wheel knob
Sun blinds, rear windows
Sun blinds, side windows
Timer cab heating
Window, sliding, door
Universal door/ignition key
Remote door opener
Forward view mirror
Cab heater power outlet 240V

Drivetrain

Diff lock front 100%, Limited Slip rear
Speed limiter
Wheel/axle seal guards

Brake system

Oil cooler and filter front & rear axle
Stainless steel, brake lines

Hydraulic system

Boom suspension system
Separate attachment locking
Arctic kit, 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
Single lever control, hydraulics 2 functions
Single lever control, hydraulics 3 functions
Single lever control, hydraulics 4 functions

External equipment

Cab ladder, rubber-suspended
Deleted front mudguards
Fire suppression system
Mudguards, full cover, front and rear for 80-series tires
Mudguards, full cover, front and rear for 65-series tires
Long boom
Tow hitch

Protective equipment

Belly guard front
Belly guard rear
Cover plate, heavy-duty, front frame
Cover plate, rear frame
Cover plate, front/rear axle
Cab roof, heavy-duty
Guards for front headlights
Guards for radiator grill
Guards for tail lights
Windows, side and rear guards
Windshield guard
Corrosion protection, painting of machine

Other equipment

CE-marking
Comfort Drive Control (CDC)
Counterweight, logging
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

Tires

26.5 R25
775/65 R29
29.5 R25
875/65 R29

Attachments

Buckets:
Rock straight or spade nose
General purpose
Re-handling
Side-dump
Light material
Wear parts:
Bolt-on and weld-on bucket teeth
Segments
Cutting edge in three sections, bolt-on

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Long boom



Load Assist



Axle oil cooler



Auto lube



Front/rear view camera



Single lever control



VOLVO

Volvo Construction Equipment

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