VOLVO WHEEL LOADER

L150E



VOLVO

L150E - A RELIABLE PARTNER IN WHATEVER YOU DO

Wheel loaders are required to work long shifts, day after day, year after year. The L150E gets the job done with maximum efficiency and minimum impact on the operator and environment. The 25-ton L150E reinforces Volvo's reputation of producing reliable equipment that will withstand the conditions of heavy-duty work. The L150E – built to endure long shifts for years to come.

The Volvo L150E is a lively machine. The high-performance, low-emission engine delivers close to maximum power already at low rpm. Furthermore, the powerful patented TP Linkage, combined with Volvo's purpose-built range of attachments, provides the flexibility needed to handle a variety of tasks. Jobs at which the L150E excels include loading trucks, feeding a crusher, earthmoving and timber handling. Advanced technology helps to make this a swift, versatile and fuel-efficient production machine. In fact, we're convinced you're looking at the champion in the 25-ton class.

Get more done

You'll find the L150E a pleasure to operate. In this respect, competing loaders simply can't compete. It's powerful, agile and easy to maneuver. Sitting comfortably in an ergonomically-designed seat, you have total control

over the machine. Engine and hydraulics respond immediately to your commands. Visibility is panoramic, and the air in the cab is always fresh. Both operator and machine get more done with a lot less haste.

A great deal for your investment

Proven reliability, excellent financing, extremely low fuel consumption and a high trade-in value provide the cornerstones of a safe investment. Add to that outstanding handling and productivity, a market-leading operator environment to protect the person in the machine, quick and simple daily maintenance and modest service requirements.

And what do you get?
The most cost-efficient loader in its class, delivering unparalleled profitability – both now and in years to come.

With the L150E, everybody is a winner. Quite simply, a great deal for your money.



Specifications L150E

Engine: Volvo D9A LB E2

Max. power at 26,7 r/s (1600 rpm)

SAE J1995 gross: 211 kW (287 hp)

ISO 9249,

SAE J1349 net: 210 kW **(284 hp)**Breakout force: 178,1 kN* **(40,040 lbf)**

Static tipping load

at full turn: 15 290 kg* (33,710 lb)

Buckets: 3,1-12,0 m³ (4.1-15.7 yd³)

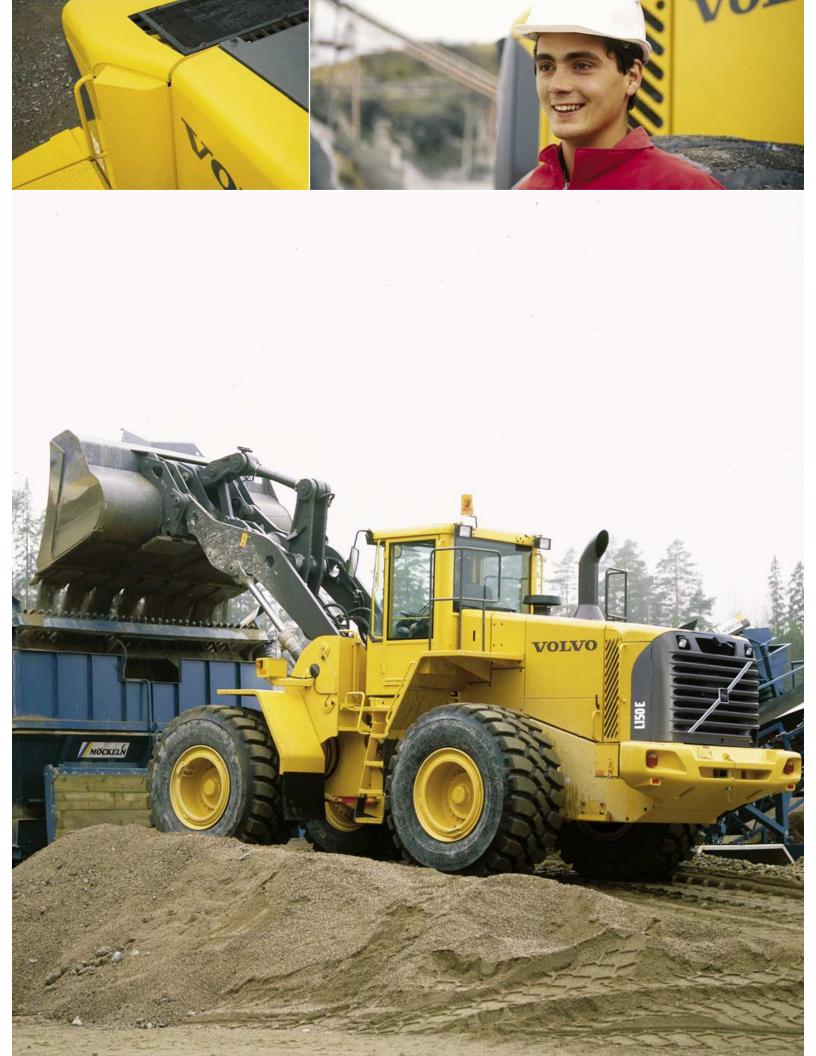
Log grapples: 1,6-3,5 m² (17.2-37.7 ft²)

Operating weight: 23,0-26,0 t (50,710-57,320 lb)

Tires: 26.5 R25

775/65 R29

* Bucket: 4,0 m³ (5.2 yd³) with bolt-on edges, Tires: 26.5 R25 L3, Standard boom



POWER UP YOUR PRODUCTIVITY

Load more tons per hour with the Volvo L150E. Its powerful engine and the Automatic Power Shift (APS) gearshifting system provide immediate response even in the toughest conditions. And Volvo axles are designed to ensure that the rimpull is there when needed. Torque Parallel Linkage (TP Linkage), load-sensing hydraulics, smooth steering and stable operation help make the L150E a precision performer.

The only thing modest about this machine is its fuel consumption

Even at low rpm, the 12 liter highperformance engine delivers full power and maximum torque. The machine responds quickly and forcefully with excellent rimpull, full hydraulic power, low fuel consumption and low-emissions. And thanks to the low rpm performance, the service life of the engine is extended.

Responds to your commands

The Volvo fully-automatic countershaft transmission provides smooth and effective gearshifting. All the operator has to do is select forward or reverse, and APS automatically selects the right gear according to both engine rpm and ground speed. Volvo's in-house engineered axles and drivetrain are well-matched and designed for top dependability. And Volvo's oil circulation-cooled wet disc brakes provide smooth, effective braking – and, of course, a long service life.

Torque Parallel Linkage - a breakthrough in the industry

The reliable TP Linkage, Volvo's patented lift-arm system, delivers high and even breakout torque throughout the entire lifting range. The system is exceedingly user-friendly. The operator can easily handle heavy materials and maintain full control in all positions.

Hydraulics that make sense

The Volvo L150E features an intelligent load sensing system for both the main and steering hydraulics. Two variable piston pumps provide the exact flow and pressure required at any given moment, distributing power when and where it's needed. In addition to rapid response, this system facilitates smoother operation, lower fuel consumption and precise control, even at low rpm.

Engine

- Volvo D9A, a turbocharged, air-to-air intercooled, low-emission engine with electronically-controlled fuel injection, delivers high torque even at low rpm.
- The electronically-controlled hydrostatic fan is only activated when necessary, thus saving fuel.

Transmission

- With Volvo's third generation of APS, the operator can select between four different operating modes, including the new AUTO function, which adaptively chooses the most convenient shifting program for the job at hand, equally weighing the operator's driving habits together with the operating cycle.
- The third generation APS now has fully-automatic shifting 1-4, meaning all the operator has to do is choose forward or reverse.

Axles/Brakes

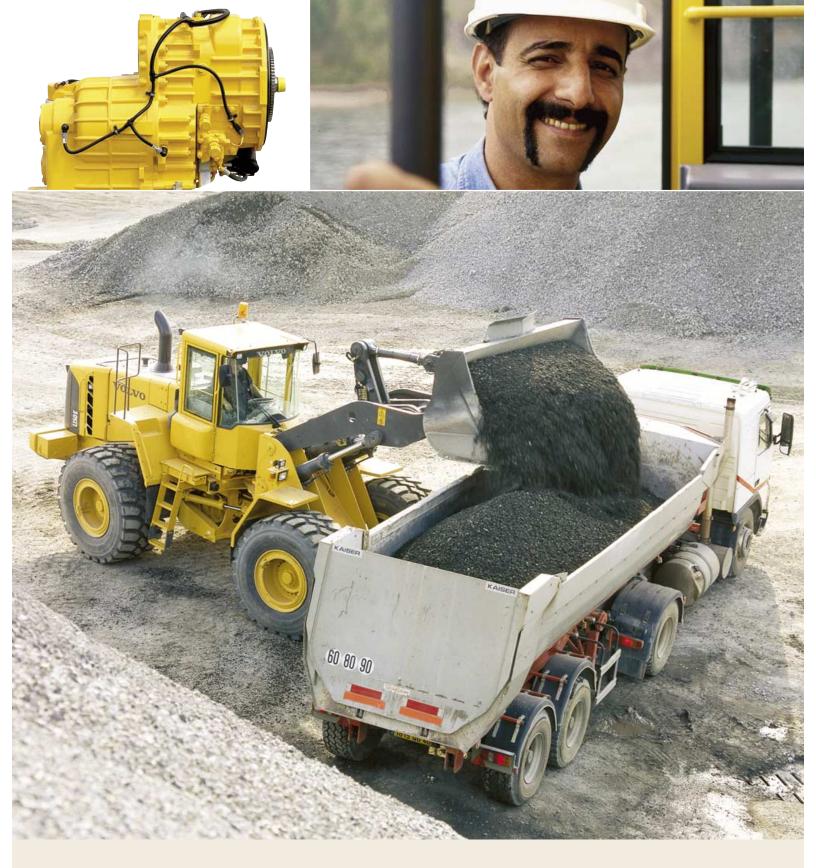
- The Volvo axles are fully-integrated with the drivetrain, delivering superior rimpull.
- Oil circulation-cooled wet disc brakes ensure effective braking and a long service life.
- An electronic brake test in Contronic gives you instant access to the status of the brakes.
- A brake wear indicator on each wheel allows you to easily check the brake pad wear.

Steering

- Load sensing steering only uses power when it's needed, thereby saving fuel.
- E-series loaders feature an accumulator system, providing stable, smooth steering and greater safety.

Frame

- Rugged frame design for secure mounting of components increases the service life of the machine.
- Volvo's frame joint bearing design is a well-proven concept that's easy to maintain and renowned for its long service life.



TP Linkage

 Unique patented lift-arm system, which provides two solutions in one: excellent breakout torque and parallel action throughout the entire lifting range.

Load sensing hydraulics

- The load sensing hydraulic system ensures that hydraulic oil is pumped around the system only when and where it's needed. This means greater efficiency and lower fuel consumption.
- Pilot-operated hydraulics allow precise control of the attachments, making life easier, and safer, for the operator.

AN ALERT OPERATOR IS A PRODUCTIVE OPERATOR

Volvo Care Cab with the Contronic monitoring system reinforces Volvo's reputation as a leader in operator environments and cab comfort. We never forget the operator inside the machine. A comfortable, operator-friendly and safe environment makes the workday easier and more productive.



A clean and comfortable workplace

The right cab climate does wonders for efficiency, keeping operators sharp during long shifts. In fact, all incoming air is filtered in two stages, making this one of the cleanest cabs on the market. Even the recirculated air is filtered. Furthermore, Volvo's state-of-the-art air-conditioning* provides a pleasant temperature year-round, regardless of outdoor conditions. So even after a long work shift, the air in the cab is still fresh, and the operator's mind is still clear.

Comfort and productivity go handin-hand

There is a range of comfortable seats, all of them with multiple adjustment functions for optimal individual comfort. All instruments are visible at a glance, and all important information is right in front of the operator. The forward, reverse and Kick-down functions are situated both on the lever on the left-hand side of the steering wheel and on the hydraulic console to the right. And thanks to Comfort Drive Control (CDC)*, you can steer, change directions and Kick-down to first gear with easy-to-use controls integrated into the left-hand armrest - an excellent way to combat fatigue and static muscle strain. Furthermore, to avoid monotonous arm movements, you can shift at any time from lever steering to using the steering wheel.

Contronic keeps an eye on everything

Contronic, the highly reliable control and monitoring system from Volvo, continuously monitors the machine's operation and performance. The system is an electronic network made up of three computers. Operating at three levels, the system keeps an eye on the machine's various functions in real-time. If a potential problem should occur, the system generates an immediate warning, making the operator aware of the condition. All operating data is saved and can be used to analyze how the machine performs and also to trace its history since the latest service. The machine's functions can be updated for optimal adaptation to new and changing operating conditions via the Contronic service display tool. With VCADS Pro, it's also possible to check and adjust the machine's functions and performance characteristics.

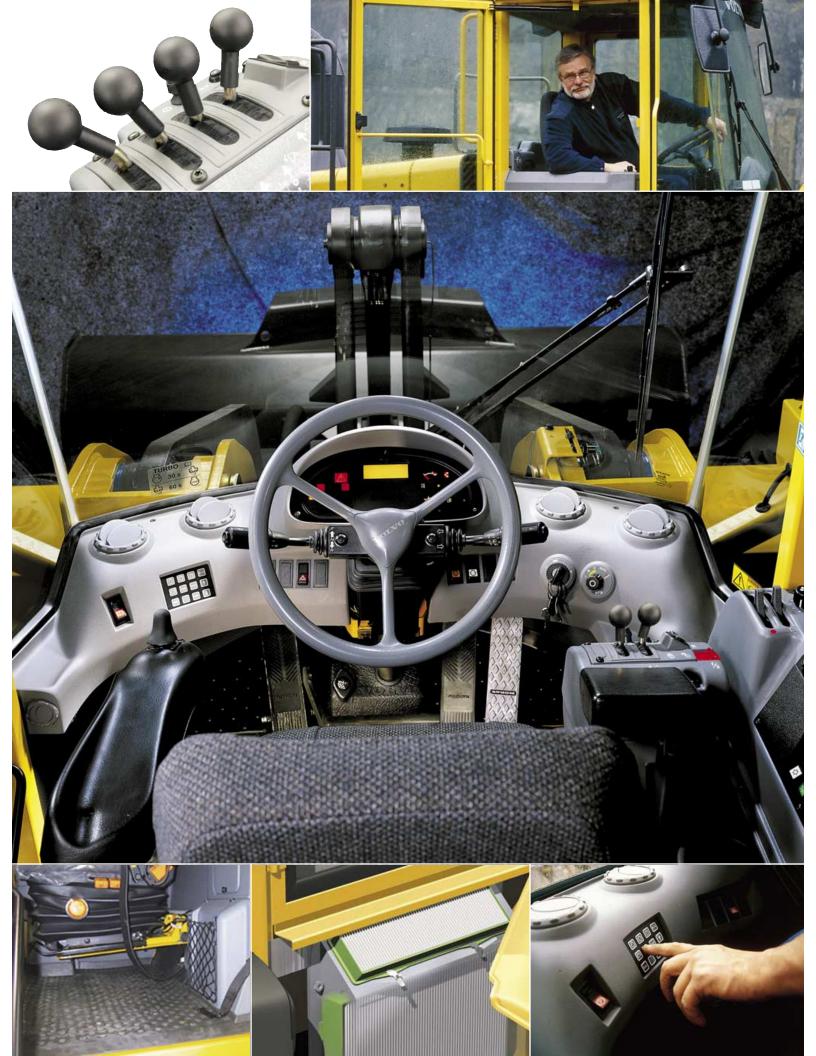
Low noise levels

Thanks to the ingenious viscous cab mounts and heavy-duty insulation, the Care Cab is one of quietest cabs on the market. By reducing tiresome earfuls and annoying vibrations, the operator will stay sharp throughout the shift. In short, it's a great place to work.

Care Cab

- Unrivalled operator environment with one of the market's best cab filtration systems.
- Pleasant interior with superior finish makes it easy-to-maintain and keep clean.
- Adjustable seat, armrest, hydraulic lever console and steering wheel* for optimal operator comfort and high production.
- Contronic, a superior control and monitoring system, designed to increase safety and productivity.
- All service platforms and entry ladders boast improved anti-slip surfaces.
 Sloped entry ladder for easy cab
- Standard viscous cab mounts feature a silicon fluid and rubber compound that work together to dampen cab vibrations and increase operator comfort.
- Large windscreens, narrow pillars and a sloped engine hood ensure good panoramic visibility, thus further increasing safety.
- Powerful halogen lighting to the front and rear provides good visibility over the entire work area.

^{*} Optional equipment



VOLVO'S COMMITMENT TO NATURE AND MANKIND

Quality, safety and care for the environment are Volvo's core values. Indeed, we see our commitment as an integral part of our operation. Few machines have to work in tougher conditions. The ultimate goal is maximized productivity and efficiency for the lowest cost per hour, with minimized environmental impact. For instance, plants and manufacturing processes are certified in accordance with ISO 14001. This is but one example of our tangible commitments and high quality standards. And that's why Volvo customers get one of the most environmentally considerate and dependable wheel loaders on the market.

A winner for years to come

Your Volvo L150E has to be a winner – both in day-to-day and long-term operations, always operating economically with maximum consideration of the environment. The machinery has to be trusted in all aspects. It must deliver the anticipations of productivity and economy. High quality and easy maintenance are imperative for keeping up the work process. The high-performance, lowemission engine is both good for your business and for the environment.

Comfortable and quiet operator's environment

The operator inside deserves a comfortable, reliable and safe machine to work with. A good environment helps to spare operator, equipment and nature for years to come. The Volvo L150E is a super competitive wheel loader that puts the operator right in the middle, literally speaking. Tedious vibrations and noise have been heavily reduced. If the operator feels comfortable and secure, it's easier to stay attentive.

More than 95% recyclable

The L150E is almost completely recyclable. We see it as a natural step in our commitment. Components such as the engine, transmission and hydraulics are re-engineered and re-used in our Parts Exchange program. The equipment has to be as trustworthy, service-friendly, productive and as cost effective as possible. Choose this wheel loader for maximum productivity and minimal impact on operator, machinery and environment. Feel free to feel secure in a Volvo L150E.

Quality

- The air is vented from all major components with easy-to-replace breather filters, used to prevent dirty air from entering the transmission, axles, fuel tank and hydraulic tank.
- All electrical wires are routed through sturdy conduits, protected from water, dust and abrasion with rubberized connectors and terminal caps.
- The L150E is designed from the beginning for easy service and maintenance. Easy access to all components lays the foundation for shorter service and maintenance time and longer life.

Safety

- A dual-circuit service brake system that fulfills all requirements according to ISO 3450, electronic brake test in Contronic and easy-to-check brake wear indicators are all ways to ensure safe and effective braking.
- Volvo Care Cab is tested and approved according to ROPS ISO 3471 and FOPS ISO 3449 standards.
- Optimized panoramic visibility gives effective control over the entire work area.
- The L150E has steps and platforms that are equipped with anti-slip surfaces and well positioned hand rails.

Environment

- The low rpm, high-performance D12C engine meets all current emission requirements according to Tier 2/Stage 2 legislation in the US and Europe.
- The L150E is manufactured in environmentally certified factories according to ISO 14001.
- The L150E is more than 95% recyclable according to material weight.
- Low external and internal sound levels.













VOLVO L150E IN DETAIL

Engine

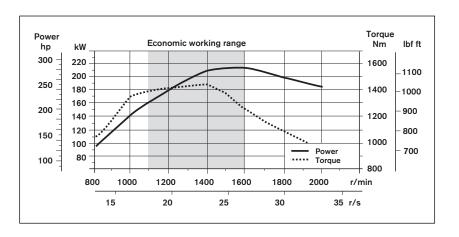
9,4 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electronically-controlled unit injectors. The engine has wet replaceable cylinder liners, and replaceable valve guides and valve seats. The throttle application is transmitted electrically from the throttle pedal or the optional hand throttle. Air cleaning: three-stage. Cooling system: Air-to-air intercooler and hydrostatic, electronically-controlled fan.

Engine	Volvo D9A LB E2
Max. power at	26,7 r/s (1,600 rpm)
SAE J1995 gross	211 kW (287 hp)
ISO 9249, SAE J1349	210 kW (284 hp)
Max. torque at	23,3 r/s (1,400 rpm)
SAE J1995 gross	1440 Nm (1,062 lbf ft)
ISO 9249, SAE J1349	1430 Nm (1,055 lbf ft)
Economic working rang	e 1100-1600 rpm
Displacement	9,4 (574 in³)

Electrical system

Central warning system: Central warning light for the following functions (buzzer with gear engaged): Engine oil pressure, charge air temperature, transmission oil pressure, brake pressure, parking brake applied, hydraulic oil level, steering pressure, low coolant level, coolant temperature, transmission oil temperature, hydraulic oil temperature, overspeeding in engaged gear, brake charging, axle oil temperature.

Voltage	24 V
Batteries	2x12 V
Battery capacity	2x140 Ah
Cold cranking capacity, approx.	. 1050 A
Reserve capacity, approx.	350 min
Alternator rating	1540 W/55 A
Starter motor output	5,5 kW (7.5 hp)



Drivetrain

Torque converter: single-stage.
Transmission: Volvo countershaft
transmission with single lever control.
Fast and smooth shifting of gears
between forward and reverse with Pulse
Width Modulation (PWM) valve. Gearshifting system: Volvo Automatic Power
Shift (APS) with fully automatic shifting
1-4 and mode selector with four different
gearshifting programs, including AUTO.
Axles: Volvo fully-floating axle shafts
with planetary hub reductions and cast
steel axle housings. Fixed front axle and
oscillating rear axle. 100% differential
lock on the front axle.

Transmission	Volvo HTE 210
Iransmission	VOIVO HTE 210
Torque multiplication	2,4:1
Maximum speed, forwa	ard/reverse
1	6,8 km/h (4.2 mph)
2	12,8 km/h (8.0 mph)
3	26,3 km/h (16.3 mph)
4	39,4 km/h (24.5 mph)
Measured with tires	26.5 R25 L3
Front axle/rear axle	Volvo/AWB 40/40
Rear axle oscillation	±15°
Ground clearance at 1	5° osc. 610 mm (24.0 in)

Brake system

Service brake: Volvo dual-circuit system with nitrogen charged accumulators. Outboard-mounted, hydraulicallyoperated, fully sealed, oil circulationcooled wet disc brakes. The operator can select automatic declutch of the transmission when braking through Contronic. Parking brake: Fully sealed, wet multi-disc brake built into the transmission. Applied by spring force and electro-hydraulically released with a switch on the instrument panel. Secondary brake: Dual brake circuits with rechargeable accumulators. Either one circuit or the parking brake fulfills all safety requirements. Standard: The brake system complies with the requirements of ISO 3450.

Number of brake d front/rear	liscs per wheel
Accumulators	2x1,0 (2x0.26 US gal)
	1x0,5 (1x0.13 US gal)
Accumulators for p	parking brake
	1x0,5 (1x0.13 US gal)

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.

Steering cylinders	
Cylinder bore	90 mm (3.54 in)
Piston rod diameter	50 mm (1.97 in)
Stroke	423 mm (16.6 in)
Working pressure	21 MPa (3,046 psi
Maximum flow	190 I/min (50.2 US gpm)
Maximum articulation	1 ±37'

Cab

Instrumentation: All important information is centrally located in the operator's field of view on the Contronic monitoring system's display unit. Heater and defroster: Heater coil with filtered fresh air and fan with four speeds. Defroster vents for all window areas. Operator seat: Ergonomic seat with adjustable suspension and retractable seatbelt. The seat is mounted on a bracket, which is mounted on the rear cab wall. The forces from the retractable seat belt are absorbed by the seat rail. Standard: The cab structure is tested and approved according to ROPS (ISO 3471) and FOPS (ISO 3449). The cab meets all requirements according to ISO 6055 (Operator Overhead Protection - Industrial Trucks) and SAE J386 (Operator Restraint System).

Emergency exits	1
Sound level in cab according to ISO 6396	LpA 69 dB (A)
External sound level according to ISO 6395 (Directive 2000/14/EC)	LwA 107 dB (A)
Ventilation	9 m ³ /min (318 ft ³ /min)
Heating capacity	11 kW (37,500 Btu/h)
Air-conditioning (options	al) 8 kW (27,300 Btu/h)

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 four positions including raise, hold, lower and float. 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 20 micron (absolute) filter cartridge.

Working pressure maximum, pump 1 25,0 MPa (3 625 psi)

		(3,025 psi)
Flow	را 180	/min (47.6 US gpm)
at		10 MPa (1,450 psi)
and engine speed		32 r/s (1,900 rpm)
Working pressure, p	ump 2	26,0 MPa
		(3,771 psi)
Flow	را 180	/min (47.6 US gpm)
at		10 MPa (1,450 psi)
and engine speed		32 r/s (1,900 rpm)
Pilot system		
Working pressure		3,5 MPa (508 psi)
Cycle times		
Raise*		5,9 s
Tilt*		2,0 s
Lower, empty		3,7 s
Total cycle time		11,6 s

^{*} with load as per ISO 14397 and SAE J818

Lift-arm system

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

Lift cylinders	2
Cylinder bore	160 mm (6.3 in)
Piston rod diameter	90 mm (3.5 in)
Stroke	784 mm (30.9 in)
Tilt cylinder	1
Cylinder bore	230 mm (9.0 in)
Piston rod diameter	110 mm (4.3 in)
Stroke	452 mm (17.8 in)

Service

Service accessibility: Large, easy-to-open service doors with gas struts. Swing-out radiator grille and cooling fan. Possibility to log and analyze data to facilitate troubleshooting.

Refill capacities

Fuel tank	335 (88.5 US gal)
Engine coolant	44,5 (11.8 US gal)
Hydraulic oil tank	156 (41.2 US gal)
Transmission oil	45 (11.9 US gal)
Engine oil	39,5 (10.4 US gal)
Axles front/rear	45/55 (11.9/14.5 US gal)

SPECIFICATIONS

Tires: 26.5 R25 L3

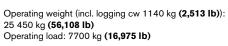
	Standard bo	om	Long boom
В	7030 mm	23'1"	7550 mm 24'9"
С	3550 mm	11'8"	
D	450 mm	1'6"	
F	3580 mm	11'9"	
G	2130 mm	7'0"	
J	3960 mm	13'0"	4530 mm 14'10"
K	4350 mm	14'3"	4920 mm 16'2"
0	59 °		
P _{ma}	49 °		
R	44 °		47 °
R ₁ *	48 °		
S	66 °		61 °
Т	54 mm	0'2"	
U	520 mm	1'9"	
Х	2280 mm	7'6"	
Υ	2950 mm	9'8"	
Z	3500 mm	11'6"	3970 mm 13'0 "
a ₂	6780 mm	22'3"	
a ₃	3380 mm	11'1"	
a ₄	±37°		

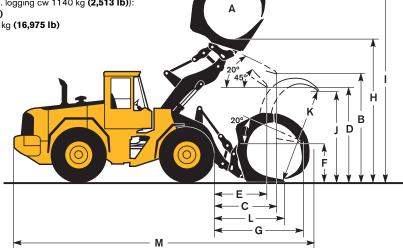
Where applicable, specifications and dimensions are in accordance with ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.

* Carry position SAE

Tires: 775/65 R29

33,3 ft ²	m ²	3,1	А
12'8"	mm	3860	В
5'9"	mm	1760	С
10'9"	mm	3280	D
4'8"	mm	1420	Е
5'12"	mm	1820	F
8'6"	mm	2580	G
16'4"	mm	4990	Н
23'10"	mm	7270	T
10'2"	mm	3110	J
11'7"	mm	3540	K
6'2"	mm	1890	L
34'9"	mm	9690	М





Supplemental Operating Data

Tires 26.5 R25 L3			Standard Boom		Long Boom					
11162 20.3 K23 L3			26.5 F	26.5 R25 L5 775/65 R29		26.5 R25 L5		775/65 R29		
Width over tires	mm	in	+30	+1.2	+110	+4.3	+30	+1.2	+110	+4.3
Ground clearance	mm	in	+30	+1.2	+25	+1.0	+30	+1.2	+25	+1.0
Tipping load, full turn	kg	lb	+770	+1,697	+630	+1,389	+650	+1,433	+550	+1,212
Operating weight	kg	lb	+1050	+2,315	+920	+2,029	+1050	+2,315	+920	+2,029

		GENERAL PURPOSE				ROCK*		LIGHT MTRL	LONG	LONG BOOM	
Tires 26.5 R25 L3		Bolt-on edges	Bolt-on edges	Bolt-on edges	Bolt-on edges	Teeth & Segments	Teeth & Segments	Bolt-on edges	Bolt-on edges	Bolt-on edges	
Volume, heaped ISO/SAE	m³	4,0	4,0	4,0	4,0	3,8	3,5	6,8	5,7	3,7	
	yd³	5.2	5.2	5.2	5.2	5.0	4.6	8.9	7.5	4.8	
Volume at 110% fill factor	m³ yd³	4,4 5.8	4,4 5.8	4,4 5.8	4,4 5.8			7,5 9.8	6,3 8.2	4,1 5.4	
Static tipping load, straight	kg	16 400	17 060	16 730	17 440	16 900	17 170	16 530	13 180	13 850	
	Ib	36,160	37,600	36,880	38,450	37,260	37,850	36,440	29,050	30,530	
at 35° turn	kg	14 570	15 190	14 850	15 510	14 990	15 220	14 650	11 620	12 270	
	Ib	32,130	33,480	32,740	34,190	33,050	33,550	32,300	25,620	27,050	
at full turn	kg	14 360	14 970	14 640	15 290	14 770	14 990	14 440	11 440	12 090	
	lb	31,670	33,010	32,280	33,710	32,560	33,050	31,830	25,230	26,650	
***Operating Load	kg	6610	6890	6740	7,040	6790	6890	6640	5270	5560	
	lb	14,570	15,180	14,850	15,510	14,980	15,200	14,640	11,610	12,260	
Maximum Material Density	kg/cm	1660	1730	1700	1770	1780	1960	980	920	1520	
(100% Fill Factor)	lb/cy	2,800	2,920	2,860	2,980	3,000	3,300	1,640	1,550	2,550	
Breakout force	kN	168,4	178,9	172,1	178,1	187,0	171,3	133,2	154,0	199,7	
	lbf	37,860	40,220	38,690	40,040	42,040	38,510	29,950	34,620	44,890	
А	mm	8730	8640	8680	8610	8790	8910	9140	9470	9060	
	ft in	28'8''	28'4"	28'6"	28'3 "	28'10''	29'3"	30'0 "	31'1 "	29'9''	
E	mm	1350	1270	1290	1250	1390	1500	1700	1550	1200	
	ft in	4'5 "	4'2''	4'3 "	4'1 "	4'7 "	4'11 "	5'7 "	5'1''	3'11"	
H*)	mm	2940	2990	2990	3000	2900	2830	2630	3320	3630	
	ft in	9'8 "	9'10 "	9'10"	9'10 "	9'6''	9'3 "	8'8 "	10'11"	11'11 "	
L	mm	5980	5930	5940	5850	5910	5950	6100	6480	6380	
	ft in	19'7 "	19'5 "	19'6"	19'2 "	19'5 "	19'6"	20'0 "	21'3 "	20'11"	
M*)	mm	1320	1250	1270	1210	1340	1440	1540	1420	1160	
	ft in	4'4"	4'1"	4'2"	4'0"	4'5"	4'9"	5'1"	4'8"	3'10"	
N*)	mm	1860	1820	1830	1790	1870	1940	1930	2350	2220	
	ft in	6'1"	6'0''	6'0''	5'10"	6'2"	6'4"	6'4"	7'9"	7'3"	
V	mm	3000	3000	3200	3200	3230	3230	3200	3200	3200	
	ft in	9'10 "	9'10''	10'6"	10'6 "	10'7 "	10'7 "	10'6 "	10'6"	10'6 "	
a ₁ clearance circle	mm	14 510	14 470	14 670	14 640	14 750	14 810	14 890	15 150	14 950	
	ft in	47'7 "	47'6"	48'2"	48'0"	48'5"	48'7 "	48'10"	49'8"	49'1"	
Operating weight	kg	23 310	23 000	23 510	23 160	23 630	23 690	23 660	23 630	23 230	
	lb	51,400	50,700	51,830	51,060	52,100	52,230	52,160	52,090	51,210	

^{*)} With L5 tires

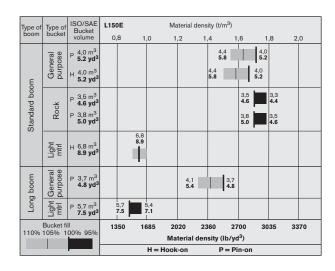
Note: This only applies to Volvo original attachments.

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP Linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration. Example: Sand and gravel. Fill factor ~ 105%. Density 2,780 lb/yd³. Result: The 5.2 yd³ bucket carries 5.5 yd³. For optimum stability, always consult the bucket selection chart.

Material	Bucket fill, %	Mate densi t/m³			/SAE ket volur yd³	Actu ne, volu m³	
Earth/Clay	~ 110	~ 1,6	5 ~ 2,780	3,8	5.0	~ 4,2	~ 5.5
		~ 1,6	0 ~ 2,700	4,0	5.2	~ 4,4	~ 5.8
		~ 1,5	0 ~ 2,530	4,2	5.5	~ 4,6	~ 6.0
Sand/Grave	l ~ 105	~ 1,7	0 ~ 2,865	3,8	5.0	~ 4,0	~ 5.2
		~ 1,6	5 ~ 2,780	4,0	5.2	~ 4,2	~ 5.5
		~ 1,6	0 ~ 2,700	4,2	5.5	~ 4,4	~ 5.8
Aggregate	~ 100	~ 1,8	0 ~ 3,035	3,8	5.0	~ 3,8	~ 5.0
	\7	~ 1,7	5~ 2,950	4,0	5.2	~ 4,0	~ 5.2
		~ 1,6	5 ~ 2,780	4,2	5.5	~ 4,2	~ 5.5
Rock	≤100 ◯	~ 1,7	0 ~ 2,865	3,5	4.6	~ 3,5	~ 4.6

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



^{**)} Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge. Measured at 45° dump angle. (Spade nose buckets at 42°.)

^{***)} Rated at Volvo's recommended maximum utilization for L150E.

STANDARD EQUIPMENT

Three-stage air cleaner with ejector and inner filter Indicator glass for coolant level

Preheating of induction air

Two fuel filters

Fuel fill strainer

Coolant filter

Oil trap

Electrical system

24 V, prewired for optional accessories

Alternator, 24 V/55 A

Air filter for alternator

Battery disconnect switch

Fuel gauge

Hour meter

Electric horn

Reverse alarm

Instrument panel with symbols

• Twin halogen front headlights with high and low beams

- Parking lights
- · Double brake and tail lights
- Turn signals with flashing hazard light function
 Halogen working lights (2 front and 2 rear)
 Instrument lighting

Contronic monitoring system

ECU with log and analysis system

Contronic display

Fuel consumption

Ambient temperature

Engine shutdown to idle in case of malfunction indication:

- High engine coolant temperature
- · Low engine oil pressure
- · High transmission oil temperature

Start interlock when gear is engaged

Brake test

Test function for warning and indicator lights

Warning and indicator lights:

- Charging
- · Oil pressure engine
- Oil pressure transmission
- · Brake pressure
- · Parking brake
- Hydraulic oil level
- · Axle oil temperature

- Primary steering

- · Turn signals
- Rotating beacon
- Preheating coil
- Differential lock

- · Transmission oil level
- · Washer fluid level

Drivetrain

mode selector with AUTO function

Forward and reverse switch by lever console

26.5 R25

Parking brake, el.-hydraulic

Brake wear indicator

ROPS (ISO 3471), FOPS (ISO 3449)

Lock kit, one combination

Acoustic inner lining

Cab heating with filter, fresh-air inlet and defroster

Floor mat

External equipment

Long boom

Decals, USA

Mudguards widener front/rear

Mudguards, fixed front and swing out rear

Deleted front mudguards and rear wideners

Protective equipment

Guards for front headlights Guards for taillights

Guards for taillights, heavy-duty Guards for side and rear windows

Guards for radiator grille

Bellyguard rear

Bellyguard, oil pan

Guards for steer cylinder

Guards for boom cylinder hose and tube

Corrosion protection, painting of machine

Corrosion protection, painting of attachment bracket Bucket teeth protection

Other equipment

Comfort Drive Control, CDC Secondary steering

Sign, slow moving vehicle CE-marking

Attachments

- · Straight with/without teeth
- Spade nose with/without teeth
- High tipping

Cutting edge in three sections, bolt-on

Log grapples

OPTIONAL EQUIPMENT

Service and maintenance

Tool box, lockable

Tool kit

Automatic lubrication system

Automatic lubrication system inclusive long boom Automatic lubrication system for attachment bracket,

welded

Refill pump for automatic lubrication system Wheel nut wrench kit

Grease nipple guards

Oil sampling valve

Engine equipment Engine block heater, 120 V

Engine block heater, 230 V Air pre-cleaner, oil-bath type

Air pre-cleaner, turbo type

Air pre-cleaner, Sy-Klone type Hand throttle control

Fuel filter, extra large with water trap

Fuel filter, with water trap and heating Radiator, corrosion protected

Fan air intake protection Reversible cooling fan

Reversible cooling fan in combination with axle oil cooler

Electrical system
Alternator, 80 A
Working light, attachments
Working lights front, extra
Working lights rear, extra
Working lights front, on cab, dual

Working lights front, high intensity License plate holder, lighting

Assymetrical lights for left-hand traffic

Reverse light

Reverse light
Shortened headlight support brackets
Warning beacon, flashing strobe light
Warning beacon, rotating, collapsible
Battery disconnect switch, additional in cab

Side marker lamps

Fire suppression system

Engine oil level

function for transmission cut-out when braking and

Fully automatic shifting gears 1-4

PWM-control between different gear positions

Differentials:

front: 100% hydraulic diff. lock

Wet oil circulation-cooled disc brakes on all four wheels

Dual brake circuits

Secondary brake system

Cab

Ashtray

Lockable door

Installation kit for radio

Radio with tape recorder Radio with CD-player

Sun blinds, front and rear windows Sun blinds, side windows

Retractable hipbelt, longer and wider than standard

automatic temp. control (ATC)

Ventilation air filter for work in asbestos environment Operator's seat with low backrest Operator's seat with low backrest and electrical heating

Operator's seat air suspended with high backrest and electrical heating

Instructor's seat

Steering wheel knob

Rear view mirrors, el. heated Cab ladder, rubber suspended

Wheel/axle seal guards

Brake system

Oil cooler for front and rear axle Oil cooler for front and rear axle in comb. with

Hydraulic system

Artic kit, attachment locking hoses and 3rd hydraulic function

14 (L150E)

Secondary steering
 High beams

 Coolant temperature Transmission oil temperature

Brake charging

Level warnings:

Coolant level

· Hydraulic oil level

Automatic Power Shift with operator-controlled declutch

rear: conventional

Tires

Brake system

Dual service brake pedals

Cigarette lighter

Air-conditioning with corrosion prot. condenser Air-conditioning with corrosion prot. condenser and

Armrest (left) for operator seat

Noise reduction kit Rear view camera incl. monitor

Drivetrain Limited slip rear Speed limiter 20 km/h Speed limiter 30 km/h

reversible fan

Single lever control Single lever control
Single lever control for 3rd hydraulic function
3rd hydraulic function
3rd hydraulic function for long boom
3rd-4th hydraulic function

Boom Suspension System Biodegradable hydraulic fluid

Artic kit, pilot hoses and brake accum. incl. hydraulic oil Separate attachment locking, standard boom Separate attachment locking, long boom

Attachment bracket, welded

Return-to-dig

Interior light

Interior rearview mirror

Two exterior rearview mirrors

Openable window right-hand side

Sliding window, right

Sliding window, door

Tinted safety glass

Hip retractable seatbelt (SAE J386)
Adjustable steering wheel
Adjustable lever console Operator's seat with high backrest and electrical heating

Storage compartment

Beverage holder

Windshield washers front and rear Windshield wipers front and rear

Interval function for front and rear windshield wipers Service platforms with anti-slip surfaces on front and

rear fenders Speedometer

Hydraulic system

Main valve, 2-spool

Pilot valve, 2-spool Variable displacement axial piston pumps (3) for:

working hydraulics

• steering system, pilot hydraulics and brakes • fan motor

Boom lowering system Boom kickout, automatic, adjustable Bucket positioner, automatic with position indicator,

adjustable Hydraulic oil cooler

and transmission

External equipment Noise and vibration dampening suspension of cab, engine

Lifting lugs Easy-to-open side panels Frame steering, joint lock Vandalism lock prepared for batteries and engine

compartment Towing hitch Other equipment

Logging counterweight

Windshield guard Bellyguard front

Cover plate front frame, heavy-duty Cover plate, under cab

Tires 775/65 R29

Buckets:

 Light materials Bolt-on and weld-on bucket teeth

Fork equipment Material handling arm

Boom Suspension System (BSS)*

BSS utilizes gas/oil accumulators connected to the lift cylinders to absorb shocks and smooth out rough roads for faster cycle times, less spillage and increased operator comfort.





Automatic Lubrication System*

Our factory-fitted Automatic Lubrication System takes care of greasing while the machine is in operation. This means less downtime for scheduled maintenance and more time for productive work.



Comfort Drive Control (CDC)*

CDC significantly reduces repetitive and tiring steering wheel movements. The operator can shift and steer easily with the aid of controls integrated in the left armrest.



3rd and 4th hydraulic functions*

Volvo wheel loaders can be equipped with third and fourth hydraulic functions, which are operated with additional control levers. These functions are necessary when there's a need to operate a third and fourth hydraulic function at the same time, such as when using a timber grapple with hydraulic heel kick-out.

Volvo genuine attachments

Volvo offers a wide range of attachments and wear parts, including the new Volvo Tooth System. Volvo genuine attachments are designed for all types of applications, from handling timber to breaking out hard and rocky materials, such as shot rock.



Spade nose rock bucket with teeth



Standard bucket with teeth





Standard bucket with edge savers



Timber grapple/Sorting grapple



Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from our 170-year engineering heritage. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built In.**



All products are not 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 North America, Inc.

One Volvo Drive, Asheville, NC 28803-3447 www.volvoce.com