VOLVO WHEEL LOADER

L70E



VOLVO

L70E - LOAD IT, LIFT IT, MOVE IT. DONE.

When you need to get it done, the L70E loads it, lifts it and moves it with precision and quickness. Providing all the power you need to meet the demands of tough conditions found in pipeline construction and earth moving, combined with the ability to maneuver in the tight work areas often found in residential construction, the L70E is the producer that delivers for a wide range of industries.

Volvo has developed and manufactured wheel loaders for half a century. The latest experiences and leading technology have been used in designing the L70E. It is the true all-round machine, giving you countless possibilities to expand your application range. With the Volvo engine and Automatic Power Shift (APS) gearshifting system, you get optimal performance and low fuel consumption in all types of applications. The Torque Parallel linkage, hydraulic attachment bracket and wide range of Volvo genuine attachments further increase the machine's versatility.

Gets more done

You'll find the L70E 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 L70E, everybody is a winner. Quite simply, a great deal for your money.



Specifications L70E
Engine:
Max power at
SAE J1995 gross
ISO 9249,
SAE J1349 net
Breakout force:
Static tipping load
at full turn:
Buckets:
Log grapple:
Operating weight:
Tires:

Volvo D6D LB E2 28,3 r/s (1700 rpm) 113 kW (154 hp)

112 kW (152 hp) 106,9 kN*

8 160 kg* $2.0 - 6.4 \text{ m}^3$ 0,9 - 1,5 m² 12,7 - 14,0 t 20.5 R25 600/65 R25

* Bucket: 2,1 m³ straight edge with teeth. Tires: 20.5 R25 L2. Standard boom.



POWER UP YOUR PRODUCTIVITY

Load more tons per hour with the Volvo L70E. Its powerful engine and the Automatic Power Shift (APS) gear shifting 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 L70E a precision performer.

Volvo engine delivers rapid response for faster work cycles

L70E is equipped with Volvo's 6-liter engine, correctly matched to the Volvo transmission, axles and hydraulic system for unbeatable productivity and economy. The electronically controlled engine transmits high torque at low engine speeds for faster work cycles and fuel efficient operation.

Responds to your commands

The Volvo automatic countershaft transmission provides smooth and effective gear shifting. All the operator has to do is select forward, reverse or kickdown 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. In addition, TP linkage provides excellent parallel movement, making it possible for the L70E to perform well in applications where other manufacturers need two different machine types.

Hydraulics that make sense

The Volvo L70E features an intelligent load sensing system for both the main and steering hydraulics. One variable piston pump provides 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 D6D, 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

- Volvo's well proven countershaft transmission provides optimal performance in all applications.
- With Volvo's 3rd 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.

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 hand-in-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 kickdown 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.

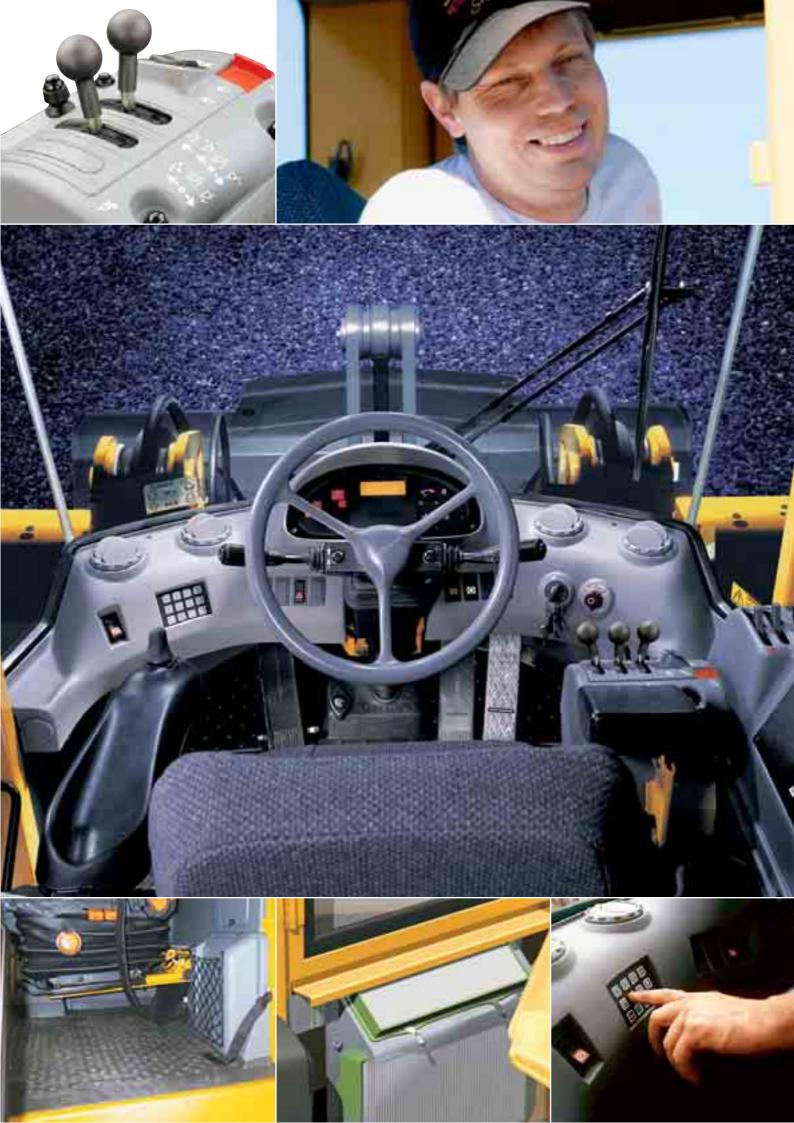
Low noise levels

Thanks to its ingenious rubber mounting system 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 antislip surfaces. Sloped entry ladder for easy cab access.
- 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 L70E 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 low emission 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 L70E 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 L70E 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 L70E.

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 L70E 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 L70E has steps and platforms that are equipped with anti-slip surfaces and well positioned hand rails.

Environment

- The low rpm, high performance D6D engine meets all current emission requirements according to stage 2 legislation in Europe and the US.
- The L70E is manufactured in environmentally certified factories according to ISO 14001.
- The L70E is more than 95% recyclable according to material weight.
- Low external and internal sound levels.



VOLVO L70E IN DETAIL

Engine

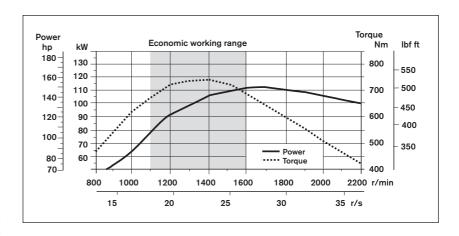
6 liter, 6-cylinder straight turbocharged diesel engine with electronically controlled unit pumps and conventional injectors. The engine has dry replaceable cylinder liners and replaceable valve guides and valve seats. The throttle application is transmitted electrically from the throttle pedal or the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

Engine	Volvo D6D LB E2
Max power at	28,3 r/s (1700 r/min)
SAE J1995 gross	113 kW (154 hp)
ISO 9249, SAE J1349	112 kW (152 hp)
Max torque at	23,3 r/s (1400 r/min)
SAE J1995 gross	739 Nm
ISO 9249, SAE J1349	732 Nm
Economic working range	1100-1600 r/min
Displacement	5,7

Electrical system

Central warning system: Central warning light for the following functions, (buzzer with gear engaged): Engine oil pressure, charge-air temperature, fuel 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.

Voltage	24 V
Batteries	2x12 V
Battery capacity	2x110 Ah
Cold cranking capacity, approx	690 A
Reserve capacity, approx	206 min
Alternator rating	1540 W/55 A
Starter motor output	5,4 kW (7,3 hp)



Drivetrain

Torque converter: single-stage.
Transmission: Volvo countershaft
transmission with single lever control.
Fast and smooth shifting of gears
between forward and reverse.
Gearshifting system: Volvo Automatic
Power Shift (APS) with mode selector
and 4 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 HT 95
Torque multiplication	2,66:1
Maximum speed, forward/re	verse
1	7,4 km/h
2	14,3 km/h
3	26,5 km/h
4	44,0 km/h*
Measured with tires	20.5 R25 L2
Front axle/rear axle	Volvo/AWB 25/20
Rear axle oscillation	±13°
Ground clearance at 13° osc	. 470 mm

^{*} local restrictions may apply

Brake system

Service brake: Volvo dual-circuit system with nitrogen charged accumulators. Outboard mounted hydraulically operated, fully sealed oil-circulation cooled wet disc brakes. The operator can select automatic disengagement of the transmission when braking using Contronic. Parking brake: Dry disc brake mounted on the transmission output shaft. Applied by spring force and released by oil pressure 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 discs	per wheel
front/rear	1/1
Accumulators	2x0,5 l, 1x1,0 l

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	2
Cylinder bore	70 mm
Piston rod diameter	45 mm
Stroke	386 mm
Working pressure	21 MPa
Maximum flow	155 l/min
Maximum articulation	±40°

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 70 dB (A)
External sound level according to ISO 6395 (Directive 2000/14/EC)	LwA 105 dB (A)
Ventilation	9 m³/min
Heating capacity	11 kW
Air conditioning (optional)	8 kW

Hydraulic system

System supply: One load-sensing axial piston pump 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 lift, hold, lower and float. Inductive/magnetic automatic boom kick-out 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		26,0 MPa
Flow at		155 I/min 10 MPa
and engine speed	32 r/s	(1900 r/min)
Pilot system Working pressure		3,5 MPa
Cycle times Lift* Tilt*		5,3 s 1,3 s
Lower, empty		2,7 s
Total cycle time		9,3 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	100 mm
Piston rod diameter	70 mm
Stroke	756 mm
Tilt cylinder	1
Cylinder bore	160 mm
Piston rod diameter	90 mm
Stroke	432 mm

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

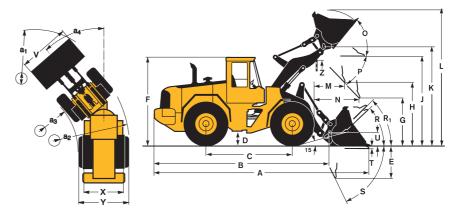
Fuel tank	197
Engine coolant	30
Hydraulic oil tank	105
Transmission oil	18
Engine oil	20
Axles front/rear	30/25

SPECIFICATIONS

Tires: 20.5 R25 L2

0:	Standard boom Long boom		
Sta	ndard	boom	Long boom
В	5980	mm	6460 mm
С	3000	mm	
D	450	mm	
F	3260	mm	
G	2130	mm	
J	3580	mm	4060 mm
K	3870	mm	4340 mm
0	56	0	52 °
P _{max}	46	0	45 °
R	42	0	44 °
R ₁ *	46	0	49 °
S	69	0	73 °
Т	102	mm	109 mm
U	390	mm	500 mm
Х	1930	mm	
Υ	2470	mm	
Z	3200	mm	3490 mm
a ₂	5350	mm	
a ₃	2890	mm	
a ₄	±40	0	

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



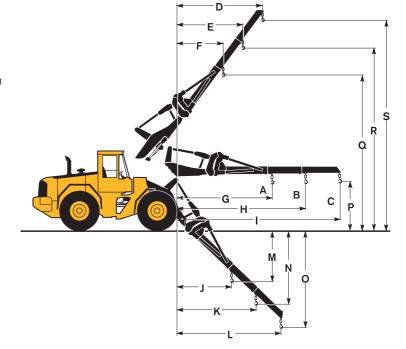
* Carry position SAE

Tires: 20.5 R25 L2

	20.5 K2	.J L2
A*	2150	kg
B*	1710	kg
C*	1400	kg
D	2710	mm
Е	2100	mm
F	1540	mm
G	3310	mm
Н	4350	mm
I	5480	mm
J	1260	mm
K	1740	mm
L	2260	mm
М	2170	mm
Ν	3090	mm
0	4100	mm
Р	1520	mm
Q	5290	mm
R	6160	mm
S	7120	mm

Order no.: 92007

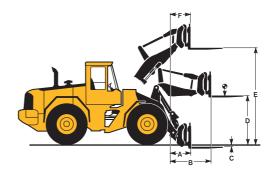
Operating weight: 12 620 kg



Tires: 20.5 R25 L2

А	830 mm
В	1600 mm
С	46 mm
D	1850 mm
Е	3730 mm
F	760 mm

Fork tine order no. (R/L): 93525/93526
Length: 1200 mm
Fork frame order no.: 80041
Width: 1500 mm
Rated operating load*: 4740 kg
at load rated distance: 600 mm
Operating weight: 12 680 kg
* acc. std EN 474-3, firm and level ground



	GENERAL PURPOSE							LIGHT MATERIAL			
Tires 20.5 R25 L2											LONG BOOM
		Bolt-on edges	Teeth	Teeth	Bolt-on edges	Bolt-on edges	Bolt-on edges	Bolt-on edges	Bolt-on edges	Bolt-on edges	
Volume, heaped ISO/SAE	m ³	2,0	2,1	2,1	2,2	2,2	2,3	2,3	3,4	6,4	
Volume at 110% fill factor	m ³	2,2	2,3	2,3	2,4	2,4	2,5	2,5	3,7	7,0	
Static tipping load, straight	kg	8800	9410	8910	8740	8710	9180	8690	8230	7870	-1680
at 35° turn	kg	7860	8440	7970	7800	7770	8210	7750	7320	6930	-1540
at full turn	kg	7590	8160	7690	7530	7490	7930	7480	7050	6650	-1500
Breakout force	kN	96,6	106,9	97,0	92,3	94,0	99,0	90,5	72,4	54,3	-2,0
А	mm	7290	7370	7470	7350	7330	7280	7380	7670	8220	+470
Е	mm	1110	1170	1270	1160	1140	1090	1180	1470	1960	+30
H*)	mm	2810	2780	2700	2770	2790	2820	2750	2530	2150	+490
L	mm	5210	5210	5280	5270	5240	5250	5300	5440	5770	+470
M*)	mm	1080	1160	1220	1120	1100	1060	1140	1340	1720	-20
N*)	mm	1620	1650	1690	1640	1630	1610	1650	1680	1720	+400
V	mm	2550	2550	2550	2550	2650	2550	2550	2650	2750	
a ₁ clearance circle	mm	11 650	11 690	11 740	11 680	11 760	11 640	11 690	11 980	12 400	
Operating weight	kg	13 100	12 860	13 070	13 140	13 170	12 980	13 180	13 380	13 850	+250

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

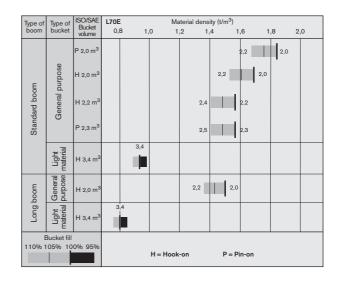
Note: This only applies to genuine Volvo attachments.

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 1,7 t/m³. Result: The 2,0 m³ bucket carries 2,1 m³. For optimal stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density, t/m³	ISO/SAE bucket volume, m³	Actual volume, m³
Earth/Clay	~ 110 🦱	~ 1,65	2,0	~ 2,2
	\ /	~ 1,55	2,2	~ 2,4
		~ 1,40	2,3	~ 2,5
Sand/Grave	~ 105	~ 1,70	2,0	~ 2,1
		~ 1,60	2,2	~ 2,3
		~ 1,45	2,3	~ 2,4
Aggregate	~ 100	~ 1,80	2,0	~ 2,0
		~ 1,70	2,2	~ 2,2
		~ 1,55	2,3	~ 2,3
Rock	≤100	~ 1,70	1,8	~ 1,8

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



Supplemental Operating Data

Tires 20.5 R25 L2	Standard boom 600/65 R25	Long boom 600/65 R25		
Width over tires mm	+60	+60		
Ground clearance mm	-30	-20		
Tipping load, full turn kg	+40	+130		
Operating weight kg	+30	+240		

STANDARD EQUIPMENT

Three stage air cleaner with ejector and inner filters

Indicator glass for coolant level

Preheating of induction air Muffler, spark arresting

Fuel filter extra large with water trap

Oil trap

Electrical system

24 V, pre-wired for optional accessories

Alternator, 24 V/55 A

Battery disconnect switch

Fuel gauge

Temperature gauge, transmission oil

Temperature gauge, engine coolant

Hour meter Electric horn

Instrument panel with symbols

Liahtina:

• 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)

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:

Battery charging

· Oil pressure engine

• Oil pressure, transmission

Brake pressure

Parking brake

 Hvdraulic oil level Primary steering

· Secondary steering

 High beams Turn signals

Work lights

Rotating beacon

Preheating coil

Differential lock

· Coolant temperature

Transmission oil temperature • Low fuel level

· Brake system pressure

Level warnings:
• Coolant level

 Hydraulic oil level · Washer fluid level

Drivetrain

Automatic Power Shift with operator-controlled disengagement function for transmission cut-out when braking and mode selector with AUTO function

Transmission modulated with single lever control Forward and reverse switch by lever console

Differentials: front: 100% hydraulic diff lock

Brake system Wet oil circulation-cooled disc brakes on all four wheels

Dual brake circuits Dual service brake pedals

Secondary brake system

Parking brake, el-hydraulic

Brake wear indicator

ROPS (ISO 3471), FOPS (ISO 3449)

Single key kit door/start Acoustic inner lining

Ashtrav

Cigarette lighter Lockable door

Cab heating with filter, fresh air inlet and defroster

Floor mat

Interior light

Two interior rear-view mirrors Two exterior rear-view mirrors

Openable window right side

Tinted safety glass

Lap-type retractable seatbelt (SAE J386)

Adjustable hydraulic lever console

Ergonomically designed operator's seat with adjustable suspension

Storage compartment Sun visor

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 rear fenders

Speedometer

Hydraulic system Main valve, 2-spool

Pilot valve, 2-spool

Variable displacement axial piston pumps (2) for:

• steering system, pilot hydraulics, working hydraulics and brakes

· fan motor

Boom lowering system

Boom kick-out, automatic, adjustable

Bucket positioner, automatic with position indicator, adjustable

Hydraulic oil cooler

External equipment

Noise and vibration dampening suspension of cab, engine and transmission

Lifting eyes

Tie-down eves

Easy-to-open side panels

Mudguards (for 20.5 R25 tires)

Frame steering, joint lock

Vandalism lock prepared for batteries and engine compartment Tow hitch

OPTIONAL EQUIPMENT

(Standard on certain markets)

Service and maintenance

Tool box, lockable

Tool kit

Wheel nut wrench kit

Automatic lubrication system

Automatic lubrication system, stainless steel
Automatic lubrication system incl. long boom
Automatic lubrication system for attachment bracket, cast

Autom. lubr. system, stainless steel, for attachment bracket, cast

Refill pump for automatic lubrication system

Grease nipple guards
Oil sampling valve

Engine equipment

Engine block heater 230 V Engine auto shutdown

Air pre-cleaner, oil-bath type

Air pre-cleaner, turbo type Air pre-cleaner, Sy-Klone type

Hand throttle control

Fuel fill strainer

Coolant filter

Radiator, hydr. oil cooler and fuel cooler, corrosion-protected

Fan air intake protection Reversible cooling fan

Electrical system

Alternator, 80 A with air filter Work light, attachments

Work lights front, extra

Work lights rear, extra

Work lights front, on cab, dual Work lights front, high intensity License plate holder, lighting Asymetrical lights for left-hand traffic

Back-up alarm

Back-up lights, automatic Rotating beacon, collapsible
Battery disconnect switch, additional in cab

Side running lights

Anti-theft device

Cab Installation kit for radio, 11 A, 12 V, left/right in cab

Radio with tape recorder

Radio with CD-player

Sun blinds, front and rear windows Sun blinds, side windows Sliding window, right

Sliding window, door

Windshield wiper, right Retractable lap-type belt, longer and wider than standard

Air conditioning

Air conditioning with corrosion-protected condenser

Air conditioning with ATC

Air conditioning with ATC and corrosion-protected condenser

Fan for AC condenser Ventilation air filter for work in asbestos environment

Cab air pre-cleaner, Sy-Klone type Operator's seat with low backrest

Operator's seat with electrical heating

Operator's seat with low backrest and electrical heating Operator's seat with high backrest and electrical heating

Operator's seat, air suspended, heavy-duty Operator's seat, air suspended with electrical heating

Operator's seat air-suspended with high backrest and

electrical heating Instructor's seat

Armrest (left) for operator seat

Adjustable steering wheel

Steering wheel knob Noise reduction kit

Rear-view camera incl. monitor Rear view camera incl. monitor, colour

Rear-view mirrors, el. heated

Foot step, right side (toolbox lockable included) Foot steps, front frame

Cab ladder, rubber suspended

Drivetrain

Limited slip rear Speed limiter 20 km/h

Speed limiter 30 km/h Wheel/axle seal guards

Brake system Parking brake alarm, audible

Hydraulic system

Single lever control Single lever control for 3rd hydraulic function

3rd hydraulic function

3rd hydraulic function for long boom

3rd-4th hydraulic function 3rd-4th hydraulic function for long boom Adjustable flow for 3rd hydraulic function

Detent for 3rd hydraulic function

HD hydraulics HD LS hydraulics Pump kit for HD LS hydraulics

Boom Suspension System (BSS) Single acting lifting function

Biodegradable hydraulic fluid Fire resistant hydraulic fluid Hydraulic fluid for hot climate

Attachment bracket, cast

Attachment bracket, side-tilting
Attachment bracket, side-tilting adapter
Mounting kit for side-tilting adapter
Separate attachment locking, standard boom Separate attachment locking, long boom

Arctic kit, attachment locking hoses Arctic kit, pilot hoses and brake accum. incl. hydraulic oil

External equipment

Long boom Mudguards front/rear for 600/65 R25 tires Mudguards full coverage for 20.5 R25 tires Mudguards full coverage for 600/65 R25 tires

Mudflap kit for mudguards Deleted front mudguards and rear wideners Logging counterweight

Protective equipment

Guards for front headlights Guards for tail lights

Guards for tail lights, heavy-duty Guards for side and rear windows

Guard for radiator grille

Windshield guard Cover plate, front frame, heavy-duty

Cover plates, rear frame Cover plate under cab

Guard for center hinge and rear frame Belly guard front Belly guard rear

Guards for boom cylinder hose and tube

Corrosion-protection, painting of machine Corrosion-protection, painting of attachment bracket Bucket teeth protection

Battery boxes, steel

Other equipment Comfort Drive Control, (CDC)

Secondary steering Sign, slow moving vehicle

Sign 50 km/h Noise reduction kit, EU

Noise reduction kit. Blauer Engel Sound decal, EU

Tires 20.5 R25, 600/65 R25

Attachments

Buckets: Straight with teeth or bolt-on edges
Spade nose

High tipping

• Grading Bolt-on or weld-on bucket teeth Cutting edge in three sections, bolt-on, reversible

Fork equipment Material handling arm

Log grapples Snow blade

Broom

Sand spreading bucket

Bale clamp Drum rotator

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 armset



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 sweeper attachment or a timber grapple with hydraulic heel kick-out.

* Optional equipment

Genuine Volvo attachments

Genuine Volvo attachments and wear parts, including the new Volvo Tooth System, are designed as an integral part of the loader, making the L70E a swift and versatile machine in a wide range of applications.

Long boom*

A long boom gives the extra dump height and reach necessary for loading high trucks or feeders.











Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from an engineering heritage of over 170 years. 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.



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