

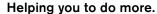
BL61B, BL71B

VOLVO BACKHOE LOADERS 7,08-9,80t 86-100hp



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.



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.











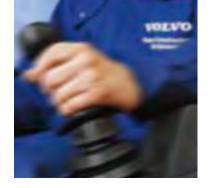


Volvo Trucks

Renault Trucks



































Volvo Penta



Volvo Financial Services





Take command with all-day ergonomic comfort features such as multi-adjustable seat, steering column and ergonomically placed controls. Increased interior space, cab ventilation through 13 vents and an AC option provide an operator-friendly environment. Excellent all-around visibility has been enhanced with more glass surface, narrow pillars and a sloping hood.



Work lights

Work lights mounted as standard on the roof of the cab are highly adjustable, enabling the complete illumination of the worksite.



Command centre.

Volvo is known as the market leader in comfort. The redesigned cab is now better than ever with ample amounts of personal storage space. The ergonomic layout, controls and instruments put you in command. All around visibility has been enhanced improving safety and productivity.

Personal cab storage

Lots of personal storage space options include 2 lockable compartments, one of which is cooled if machine is equipped with AC. Also 5 storage trays, a net pocket, roof shelves, cup holders and a phone holder.





Cab dome light

When opening the left hand side cab door, the entrance is illuminated by a large, automatic dome light, providing safe entry and exit.

Adjustable steering column

The optional Deluxe Cab features a steering wheel with both height and extension adjustments.





Seat turning

The cab features more room around the seat, making turning and position change from loader to excavator quicker and easier. More legroom around the controls.

Genuine Volvo Loader.

Go to work with the front loader. Pilot joysticks and front mechanical controls enable easy control and manipulation of the bucket and other front attachments. Smooth steering with a small turning radius provides excellent maneuverability on the jobsite.

Loader pilot/mechanical controls

The BL71B features a single-handed, multifunctional pilot-controlled loader joystick. Joystick with additional features includes machine direction, auto kick-down and transmission declutch.

The BL61B features a mechanically-controlled levers. A second, separate lever is used to control a multi-purpose bucket (if installed).

Differential lock/rear fender design

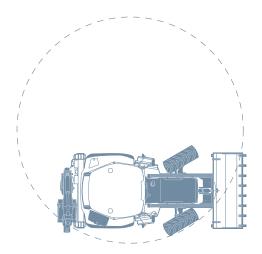
The differential lock, engaged via foot switch, operates on the rear axle, providing maximum rear wheel grip on slippery ground. Newly-designed rear fenders limit mud/debris projections on the cab windows. Rear fenders house a lockable storage for the washer bottle and the cab ventilation filter box.





Turning radius

Offers excellent maneuverability and positioning with a steering angle of 55° using both 18" and 20" tyres.







Excavator in control.

Excellent visibility due to the narrow boom and arm, along with high forces and excellent bucket rotation, enables productive trenching in any conditions. Large stabilizer feet provide improved stability even on soft ground.

205° bucket rotation

A cast bucket linkage and improved rotation to 205 degrees allows improved vertical trench digging and reduced machine repositioning.



Stable performance

New large, rectangular stabilizer feet reduce ground pressure by 30% over previous models, providing good stability on soft ground. When street pads are fitted, pads can be rotated to extend their life.

Pilot controls

The infinite adjustable pilot towers ensure the operator finds the most comfortable working position for those long periods of operation.



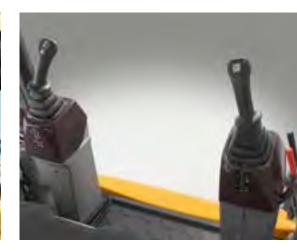
VOLVO

Mechanical control levers

Mechanical excavator controls are designed to enable comfortable machine operation with angled levers for knee clearance when operating and rotating in the seat.

Auxiliary hydraulic circuit

An optional auxiliary hydraulic circuit is available on both pilot and mechanical controls. A proportional, thumb operated roller with adjustable direction and flow ensures precision control of the attachment.





Mechanical knobs

Redesigned knobs allow for optimal grip and comfortable, all-day operation. The left hand side has an optional thumb roller, used when the dual auxiliary hydraulics are fitted.



Power with precision.

Volvo hydraulic performance constantly adapts to your work needs. With flow-sharing oil delivery that matches the required force, you always have the speed and power you need.

Volvo engine

The well-proven, high-performance Volvo engine provides reliability, compliance with emissions regulations and fuel efficiency for environmental care.



TOTAL OF BELLEVILLE

Two auxiliary hydraulic options

Single acting hydraulic line for one way direction attachments like hydraulic breakers.

Double acting hydraulic line for use with hydraulic breakers, thumb or tilting ditch bucket.

Variable hydraulic pump (BL71B)

The load sensing, variable flow hydraulics enable power on demand and productivity even at low engine speeds for economical operation. Flow sharing hydraulics enables multiple machine function for maximum efficiency.





Fixed-flow hydraulic pump (BL61B)

Equipped with one, fixed-displacement hydraulic gear pump, combined with a flow sharing valve, to provide a simple and robust system.

Loaded at both ends.







Maintain your uptime.

Do your maintenance quickly with filters and grouped service points that are easy to see and reach from ground level. A large tool box also features an innovative design for even more storage, access and security.

Tool box

The tool / battery box is integrated in to the left hand side cab steps. The wide storage space and easy access with a gas strut retained opening, allows for large objects to be stored safely outside of the cab. Can be locked with the machine key or own padlock.



Fuse box access

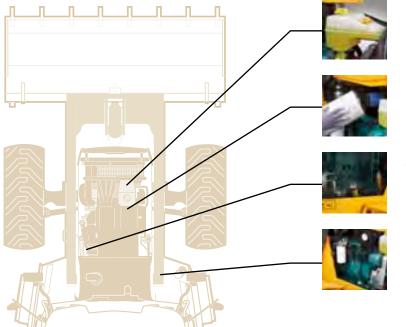
The fuse box is located within the cab, for protection from dirt and moisture. Fuses can be easily and quickly accessed from behind a detachable access panel.



Tilting oil cooler

The hydraulic oil cooler, positioned in front of the radiator, can tilt forward for full, easy access. Tool free cleaning of the hydraulic oil cooler and radiator saves time.





Coolant expansion tank is easily accessible for quick daily maintenance check.

Accessible from ground level, the large, dual-element air filter is positioned above the engine.

Transmission and engine oil level dipsticks and filler points located on the left side of the engine.

Engine oil filter and fuel filters are located on the right side of the engine, accessible at ground level with the hood raised.

Top performance deserves support.

The day you receive your new Volvo Backhoe Loader is just the start of your working relationship with Volvo. From service and maintenance products to a wide range of options and attachments – Volvo has a comprehensive aftermarket portfolio to continuously add value to your business.

Volvo designed and built your machines, so no-one knows how to keep them working in top condition more than us. When it comes to your machine, our Volvo trained technicians are the experts.

Our technicians work with industry leading diagnostic tools and techniques, using only Genuine Volvo Parts to deliver the highest levels of quality and service. Talk to your Volvo dealer about how genuine Volvo services can best provide the service and maintenance plan that is the right fit for you and your business.







State-of-the-art machines require state-of-the-art support and your Volvo dealer can provide a catalogue of services designed to get the most out of your machine, helping you maximise uptime, productivity and residual value. Your Volvo dealer can provide a number of sophisticated support offers, including:

Service plans ranging from routine wear inspections, through to comprehensive maintenance and repair agreements.

Analysis and diagnostics to help you understand how your machine is running, highlight potential maintenance issues and identify where performance can be improved.



Versatility.



Hydraulic Loader Attachment Bracket

bracket allows easy and fast $attachments\ interchange ability.\ The$ attachment bracket with hydraulic locking pins is rugged and easy to operate. Precision fit and quality engineering with large, rounded hooks make it easy to guide the attachment into the bracket.



Hydraulic Quick Coupler

The Volvo Hydraulic Quick Coupler Coupler is also available.



Backhoe Part		
Backhoe bucket		
Fixed ditching bucket	mm	1 200 1 500
General Purpose Heavy Duty	mm	300 450 610 910
General Purpose Standard Duty	mm	300 400 450 610 910
Backhoe Quick Coupler		
Volvo mechanical quick coupler		
Volvo hydraulic quick coupler		
Hydraulic breaker		
Hydraulic breaker		HB440
Breaker HB440 tools		

Loader Part		
Loader bucket, direct pin-on		
General Purpose Standard Duty	m^3	1.0
General Purpose Heavy Duty	m ³	1.0
General Purpose bucket with fork retention bracket	m^3	1.0
Multi Purpose bucket with fork retention bracket	m ³	1.0
Loader Attachment Bracket (LAB)		
Volvo TPV hydraulic attachment bracket		
Loader bucket, LAB		
General Purpose Standard Duty	m^3	1.0
Multi Purpose Standard Duty	m³	1.0
Bolt-on teeth		
Bolt-on egdes		
Forks		
Flip over pallet forks		
Fork kit LAB	mm	1 200

Specifications.

Engine		BL61B	BL71B
Low-emission engine conforming EPA Tie Stage IIIA regulations, direct-injection, turb 4 cylinders, 4.8l displacement, liquid-coole diesel engine.	ocharged,		
Model			5D CDE3
Compression ratio		18	.1:1
Net power (ISO 9249 / DIN 6271) at rated engine speed	kW (hp)	62 (83) 68 (91)	68 (91) 73 (98)
Gross power (ISO 14396) at rated engine speed	kW (hp)	64 (86) 70 (94)	70 (94) 74.9 (100)
Rated speed	rpm	2 :	200
Maximum torque net at 1600 rpm (ISO 9249/DIN 6271)	Nm	380 400	400 420
Electrical system			
Voltage	V	1	2
Battery capacity	Ah	1	10
Alternator current rating	Α	9	95
Hydraulic system			
Flow sharing system		•	•
Fix flow, gear pump		•	-
Variable flow, closed centre, load sensing, piston pump		-	•
Max. flow	l/min	112	160
Working pressure excavator	bar	2	50
Working pressure loader	bar	220	250
Total system capacity	1	1	40
Drivetrain			
Front axle			
Load rating - dynamic (*Heavy Duty axle)	kg	7 138 /	9 687
		9 687* 17 845 /	
Load rating - static (*Heavy Duty axle)	kg	24 218*	24 218
Max oscillation at wheel	0	1	6
Rear axle			
Load rating - dynamic	kg		648
Load rating - static	kg		120
Differential locking (electro hydraulic control)	%	1	00
Steering			
Hydrostatic load sensing steering with prot double acting single cylinder behind the fro with remote grease fitting for axle pivot pin	ont axle		
Steering angle	0	5	55
Turns to lock			4
Turning radius between curbs with brakes / without brakes	m	3.46 / 4.41	3.62 / 4.40
Turning radius between walls with brakes / without brakes	m	4.97 / 5.70	5.01 / 5.75
Transmission			
Powershuttle mechanical gear box with four and four reverse fully synchronized gears or transmission with four forward and reverse s Electro-hydraulic forward/reverse lever on st column or switch on loader pilot control. Aut mode is activated when fourth gear is engagent.	Powershift speeds. teering comatic		
Travel speed			

km/h

km/h

km/h

km/h

km/h

km/h

km/h

km/h

5.8

9.2

19.5

37

5.9

9.5

20.2

36.2

6

9.6

20.8

37.3

6.1

9.9

21.5

36.5

Powershuttle

1st gear

2nd gear

3rd gear

4th gear

2nd gear

3rd gear

4th gear

Powershift 1st gear

Brakes		BL61B	BL71B
Service brakes type: Multi-plate, oil-immersed, se power-assisted, self adjusting outboard disc brak Parking brake type: External disc on input shaft.		BLOIB	BL/ IB
Number of brake discs per side		2	<u>)</u>
Weight			
Operating weight min / max	kg	7080/9120	7740/9800
Service fill capacities			
Fuel system	- 1	15	50
Hydraulic system	- 1	140	
Cooling system	I	2	2
Hydraulic reservoir	- 1	4	8
Engine oil (including filter)	- 1	1	4
Front axle oil capacity (including differential and hubs)	1	8.	1
Rear axle oil capacity (including differential and hubs)	I	14	.5
Backhoe performance			
The curved excavator boom has a closed box- welded construction with fewer components and welds to guarantee a superior strength. The kingpost is composed of cast iron to allow flexible memory and the composed of cast iron to allow flexible are increased.			

movement and swing. Extendible arm increases the reach by 1 m.

Standard arm			
Bucket width	mm	610	
Bucket capacity	m ³	0.2	
Bucket breakout force ISO / SAE J1179	kN	55.7 / 50	62.4 / 56
Arm breakout force SAE J1179	kN	32.6	38.8
Bucket rotation	0	205	
Extendible arm			
Bucket width	mm	610	
Bucket capacity	m^3	0.2	
Bucket breakout force retracted or			
extended ISO / SAE J1179	kN	55.7 / 50	62.4 / 56
extended ISO / SAE J1179 Arm breakout force retracted / extended SAE J1179	kN kN	55.7 / 50 32.6 / 24.3	62.4 / 56 38.8 / 28.9

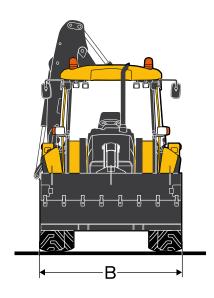
Loader performance

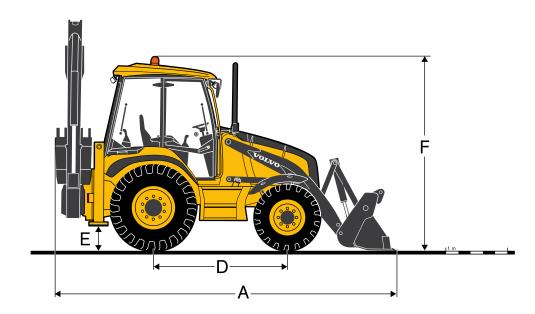
Volvo patented loader linkage features a single cylinder and is self leveling with float and return-to-dig. Loader is box weld constructed with large diameter cross member and friction welded dual lift

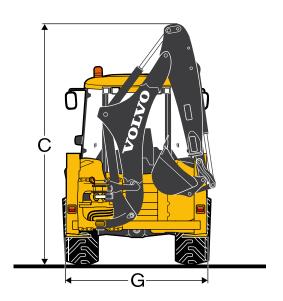
Lift capacity at full height (Bucket 1m³, 2350 mm, pin on) GP / MP	kg	2 910 / 2 630	3 390 / 3 130
Bucket breakout force (Bucket 1m³, 2350 mm, pin on) GP / MP	kN	45.3 / 43.7	57.1 / 55.5
Loader arm breakout force (Bucket 1m³, 2350 mm, pin on) GP / MP	kN	48.5 / 45.5	55.4 / 52.9
Tires (Standard)			

Front		340/80x18	400/70x20
Rear		440/80x28 -	480/80x26
Noise level			
Inside cab	dB(A)	7	4
Outside cab	dB(A)	10)2

Specifications.



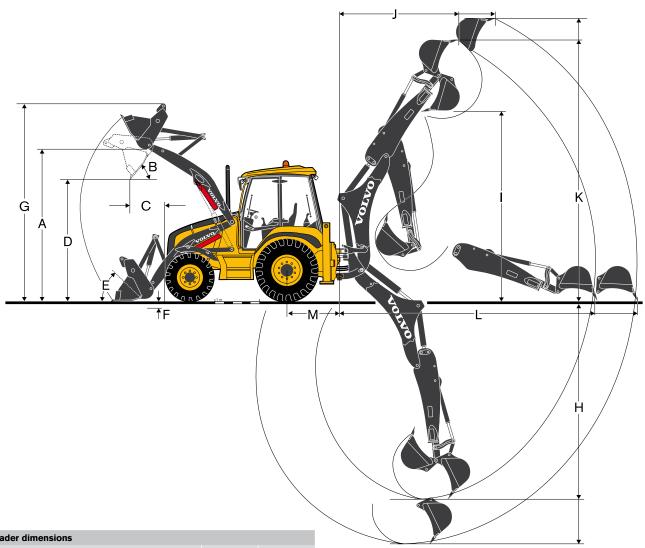




5.83 2.45 3.77	5.81 2.45 3.75
2.45	2.45
3.77	3.75
	0.70
2.18	2.19
0.37	0.36
2.96	2.96
2.30	2.30

Loader buckets			
	-		
	Width	Weight	Capacity
General Purpose bucket	2 350 mm	475 kg	1.0 m³
Multi Purpose bucket	2 350 mm	790 kg	1.0 m ³

Excavator buckets				
				NI T I
	Width	Weight	Capacity	Nbr. Teeth
	300 mm	93 kg	0.08 m ³	3
0	400 mm	100 kg	0.12 m^3	3
Standard Duty backhoe bucket	450 mm	109 kg	$0.13 m^3$	3
Dacking Bucket	610 mm	125 kg	0.19 m^3	4
	910 mm	163 kg	$0.29~\text{m}^{\text{3}}$	5
	300 mm	117 kg	0.08 m ³	3
Heavy Duty backhoe	450 mm	136 kg	$0.14 m^3$	4
bucket	610 mm	166 kg	0.2 m ³	5
	910 mm	214 kg	$0.33~\text{m}^3$	6
Fixed ditching	1 200 mm	135 kg	0.16 m ³	0
backhoe bucket	1 500 mm	158 kg	0.21 m ³	0



Loader dimensions			
		BL61B	BL71B
A - Height to loader hinge pin	m	3.40	3.46
B - Dump angle (GP bucket, 1m³, pin on)	٥	50	49
C - Dump reach at 45° (GP bucket, 1m³, pin on)	m	1.06	1.01
D - Dump height at 45° (GP bucket, 1m³, pin on)	m	2.80	2.86
E - Bucket rollback at ground level (GP bucket, 1m³, pin on)	٥	44	44
F - Maximun digging depth (GP bucket, 1m³, pin on)	m	0.22	0.16
G - Maximum operating height (MP bucket, 1m³, pin on)	m	4.41	4.46
Max. grading angle (GP bucket, 1m³, pin on)	0	116	117

Backhoe dimension - Standard arm			
		BL61B	BL71B
H - Maximum digging depth (SAE)	m	4.26	4.29
- Digging depth SAE (0.61 m) flat bottom	m	4.23	4.27
I - Loading clearance	m	3.94	3.91
J - Loading reach at maximum height	m	2.55	2.61
K - Operating height	m	5.67	5.63
L - Reach from swing post at ground level	m	5.86	5.86
M - Reach from rear axle	m	7.17	7.17

Backhoe dimension - Extendible arm			
		BL61B	BL71B
H - Maximum digging depth (SAE) Ret	m	4.27	4.29
- Maximum digging depth (SAE) Ext	m	5.32	5.35
- Digging depth SAE (0.61 m) flat bottom Ret	m	4.23	4.27
- Digging depth SAE (0.61 m) flat bottom Ext	m	5.29	5.32
I - Loading clearance Ret	m	3.95	3.92
- Loading clearance Ext	m	4.57	4.53
J - Loading reach at maximum height Ret	m	2.54	2.60
- Loading reach at maximum height Ext	m	3.41	3.48
K - Operating height Ret	m	5.67	5.63
- Operating height Ext	m	6.29	6.25
L - Reach from swing post at ground level Ret	m	5.86	5.86
- Reach from swing post at ground level Ext	m	6.83	6.83
M - Reach from rear axle Ret	m	7.17	7.17
- Reach from rear axle Ext	m	8.14	8.14
Swing torque	kN	26	26
Maximum digging depth	m	6.03	6.03

Equipment.

STANDARD EQUIPMENT

Engine

Volvo D5D (4.8 I) turbocharged diesel

83 SAE Net hp (62kW) / Gross 86 hp (64kW)- BL61B 91 SAE Net hp (68kW) / Gross 94 hp (70kW) - BL71B

meets EPA Tier 3 / Stage 3A compliance requirements

Engine fan guard

Ground line fuel fill with 150 liter capacity

Front grill

Tilting cooler

Flip-open, rear-tilting, one-piece engine hood for ease of service

Electrical System

Battery, 690 CCA

Alternator 95 Amp.

Hydraulic System

"Flow Sharing" System

Hydraulic oil cooler

Constant flow on loader MP hydraulics (BL71B)

Driveline

Four wheel drive

Differential lock

Fast reversing shuttle, all gears

Torque convertor

Four-speed synchromesh transmission

Neutral transmission button on loader joystick - BL71B

Transmission de-clutch on loader joystick - BL71B

Brake pedals operable either independently or interlocked

External parking brake

4WD assist braking above 20 km/h

Power steering

Tyres bias or radial

Throttles, hand and foot

Loader

Arms with dual lift cylinders and single, center-mounted dump cylinder, with pilot-operated joystick (BL71B) or mechanical levers (BL61B)

Transmission disconnect and forward/reverse transmission

direction change buttons on joystick (BL71B)

Hydro-mechanical self-leveling system, loader arm float and bucket return-to-dig

Backhoe

Backhoe, side-shift, excavator - two lever control

Electro-hydraulic boom transport lock

Sideshift, locking

Swing transport lock

2 mechanical levers ISO / SAE or X pattern

Cab (ROPS / FOPS)

Refer to Cab configuration matrix

Service and Maintenance

Large tool box - external 50-hour greasing intervals

Gauges:

Coolant temperature

Fuel level

Hour recorder

Warning and control

Warning and control lamps:

- Preheating element engine,
- · High coolant temperature engine,
- · Low oil pressure engine,
- Air filter engine,
- High oil temperature transmission,
- Service indicator,
- · Battery charging,
- Hydraulic oil filter,
- High hydraulic oil temperature,
- Low hydraulic oil temperature,
- Warning and control lamps

Horn

Warning buzzer

Integrated safety strut

OPTIONAL EQUIPMENT

Engine

91 SAE Net hp (68kW) / Gross 94 hp (70kW) - BL61B 98 SAE Net hp (73kW) / Gross 100 hp (74,9kW) - BL71B

Cyclonic pre-filter

Electrical System
Battery, additional

Hydraulic System

Hand held hydraulic

Lockable hydraulic tank cap

Hydraulic breaker circuit

Backhoe auxiliary bi-directional hydraulics combined with single acting Mineral hydraulic oil VG68 for high ambient temperature

Driveline

Fully automatic powershift transmission

Speedometer for powershuttle transmission

Drive shaft guard

Front fenders

Front mud guards

Boom suspension system

20" front tyres

Loader

Loader safety valve

Backhoe

Extendible arm

Pilot controls SAE or ISO in lieu of mechanical controls

SAE backhoe and ISO excavator joysitck pattern switchable by electric inside cab switch (BL71B)

Lifting ey

Boom and arm safety valves

Others

Reversing alarm

Additional hour recorder

Stabilizer street pads

Rear lights guard

King post guard Special colours

Cold climate preparation (engine block heater, double battery and VG32 hydraulic oil)

Backhoe Attachments

Hydraulic Quick Coupler

Mechanical Quick Coupler

General Purpose buckets Standard Duty

General Purpose buckets Heavy Duty

Fixed ditching buckets

Hydraulic thumb*

Hydraulic breaker

Loader Attachments

Hydraulic Loader Attachment Bracket

General Purpose loader buckets

Multi Purpose loader buckets

Flip-over forks for General or Multi Purposes loader buckets

Fork kit for Loader Attachment Bracket

Log grapple for Loader Attachment Bracket

High Tip bucket for Loader Attachment Bracket

Side Tip bucket for Loader Attachment Bracket

• = Standard • = Option - = Not available	Canopy	Basic	Standard
Doors and windows			
Left door only	-	•	-
Two doors (includes plastic door trim)	-	-	•
Opening rear side windows	-	•	•
Opening front side windows	-	-	-
All tinted glass	•	•	•
Front windscreen + wiper	0	•	•
One-piece opening rear window	-	٠	•
Roof			
Plastic Roof	•	٠	٠
Headliner	-	•	•
Power socket x 2 - External Rotating beacon switch	•	٠	٠
Seat			
Seat - non suspended - vinyl	0	٥	-
Seat - Std (vinyl, mechanical)	0	0	-
Seat - Std (cloth, mechanical)	-	٥	-
Seat - Comfort (cloth, air)	-	-	•
Seat - Deluxe (cloth, air, with back rest)	-	-	-
Arm rest	0	0	•
Seat belt - Wide (3")	0	٥	۰
Steering column			
Fixed steering column	٥	٠	-
Tilt steering column	0	0	•
Tilt and telescopic steering column	-	-	-
Steering wheel knob	٥	٥	٥
Visibility			
Interior rearview mirror	•	٠	٠
Additional interior rearview mirror*	0	0	0
External rearview mirrors	•	٠	•
RHD roading lights	0	0	0
LHD roading lights	0	0	0
Rear work lights x 2 (outer position)	•	•	•
Front work lights x 2 (outer position)	•	•	•
Addional lights x 4 (inner position)	0	0	•
Side mudguards	-	•	•
Dome light			•
Safety Anti theft**			
Vandal guard		_	_
Support for fire extinguisher	0	0	0
Support for fire extinguished Support bracket for first aid kit (aid kit not provided)	0	0	0
Caretrack	0	0	0
Other			
Coat hook	•	•	
Mobile phone support	•	•	•
Open left hand storage		•	-
Left hand storage lid	0	-	•
Front right hand side storage lockable		•	
Air conditioning with cooled front storage	-	0	0
Rear storage net pocket	-	-	•
Rubber mats for the storages	-	-	•
Roof shelves	-	-	-
Power socket	•	•	•
Sun visor	•	•	•
Speedometer Km/h - Mph (Powershuttle)	0	0	0
	٥	0	0
Additional hour meter			
Additional hour meter Radio preparation (antenna + speakers + support + 2	nd _	0	0
	2nd -	0	٥

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Cab configurations



Hydraulic thumb



Powershift



Cab side mudguards



Air conditioning with cooled front storage



Additional battery





Volvo Construction Equipment

www.volvoce.com