



Volvo Construction Equipment

BL60B, BL70B

VOLVO BACKHOE LOADERS 6.99 t - 9.8 t 86-100 hp



A passion for performance.

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

Helping you to do more.

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

Designed to fit your needs.

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



You learn a lot in 180 years.

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

We're on your side.

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

We have a passion for performance.



Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction
Equipment



Volvo Penta



Volvo Financial Services



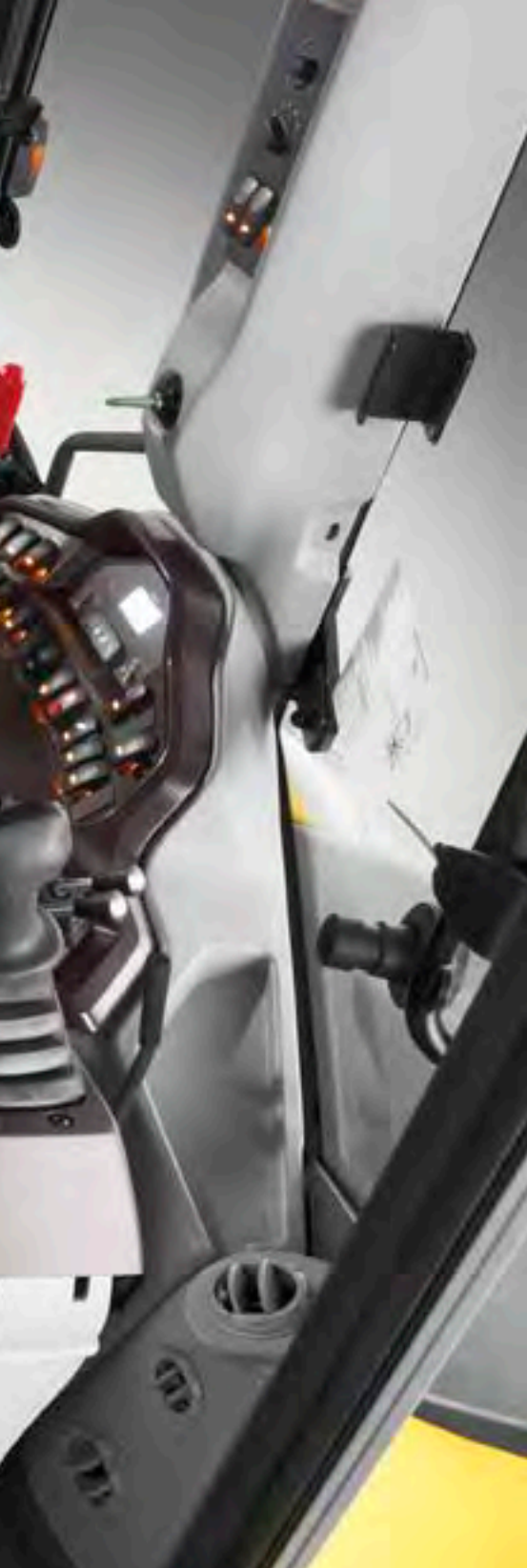
Volvo Cab

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 air conditioning (AC) option provide an operator-friendly environment. Excellent through large windows, narrow pillars and a sloping hood. The cab shown on page 4 picture is a pilot controls version of BL70B.



Cab work lights

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



Your space. Your Command Center.

The next-generation Volvo backhoe is here. Step into the redesigned, roomier cab and raise your productivity with durable, high-performance equipment. Volvo is known as the market leader in comfort and the cab is now better than ever with ample amounts of personal storage space. The ergonomic layout, controls and instruments put you in command. With large glass areas, all-around visibility has been enhanced, improving safety and productivity.

Refrigerated compartment

When equipped with air conditioning (AC), a large compartment below the steering column is refrigerated, providing convenient storage for beverages and food.



Adjustable steering column

The optional Deluxe Cab features a steering wheel with both tilt and telescopic adjustments, permitting changes to fit any operator's preferences.



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.



Spacious seat legroom

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

Excavate in complete control.

Excellent visibility due to the large, yet narrow excavator-style boom and arm, along with high forces and excellent bucket rotation, enables productive trenching in any conditions. Excavate with complete power and performance, all in ergonomic control.

205° bucket rotation

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



Adjustable pilot control towers

The infinitely adjustable pilot control towers ensure the operator finds the most comfortable working position, ideal during long periods of operation.



ISO/SAE pilot control option - BL70B

Easily and quickly change from ISO or SAE control pattern by a switch inside the cab. Adapts to any operator's skill, preference and comfort.



Arched excavator boom

Arched design delivers strength, improved reach over high walls / obstacles and the ability to dig closer to the machine. Capability to carry and distribute high stress loads. Provides easier truck loading in confined areas. Obit optatimus antorem nossimet eost, ipidel int vendae nonsecum denimus



Mechanical control lever

Mechanical excavator controls are designed to enable comfortable machine operation with plenty of legroom and levers for knee clearance when operating or rotating in the seat. Agnihit omnitiurem exerum lia doloreh eniminum que mollacepel in cum re ne nimod exerum volupta tinveli ctincipsunte quo



Mechanical control knobs

Redesigned, ergonomic 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. Rem nempore peruptatur? Dae. Et explaccae voluptur? Qui aut quist, saperun tiorenimet pos acea



Excavator performance

Excavator performance excels from a harmony of linkage design, flow sharing hydraulics and ergonomic controls. Provides solid performance in digging and lifting applications. Allows excellent trench visibility and for working around buried obstructions.



Loader performance

High-performance loading is achieved through a very durable loader linkage and powerful hydraulics. Increased size of BL60B loader lift cylinders have resulted in higher breakout force and lift capacity over the previous series. Precisely tuned controls enable efficient and productive loading.

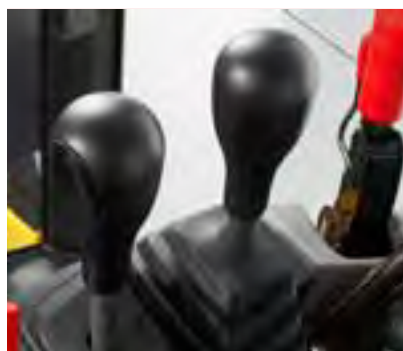


World-leading loader.

Volvo backhoe loaders apply the expertise and heritage of nearly 60 years of world-class leading Volvo loader performance. It puts you in control of powerful, dependable loader boom and versatile attachments that help you do your job more productively.

Loader pilot controls

The BL70B features a single-handed, multifunctional pilot-controlled loader joystick. Joystick with additional features includes machine direction, auto kick-down and transmission declutch.



Loader mechanical controls

The BL60B features 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. Black fender extension strips can be easily replaced if damaged.



Single tilt loader linkage

The self-leveling, single tilt cylinder provides the toughness and power of a dual linkage system, but with the improved visibility of front attachments. Perform loader applications with powerful lift and high breakout force. Minimal pivot points for lower maintenance.

Power with precision.

Volvo hydraulic performance constantly adapts to your work needs. When operating two or more functions simultaneously, flow sharing ensure even flow distribution for extremely smooth and precise multi-functioning operations.

Two auxiliary hydraulic options

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

New auxiliary hydraulic circuit for use with single or double-acting attachments such as Hydraulic breakers, thumbs or augers.



Load-sensing hydraulic system - BL70B

A variable-flow piston pump continuously adapts flow delivery to suit required force. Action on the working equipment is directly proportional to the force applied on the controls. BL60B is equipped with a reliable, fixed-flow hydraulic pump.



Knob with fingertip roller

An easy-to-use fingertip-roller is included with the combined double / single acting hydraulic option. Provides ergonomic and precise attachment control.



Hydraulic flow adjustment

Maximum flow adjustment – available in multiple incremental settings – can be performed from the ease of the cab. Even more precision to accurately control attachments such as a multi-purpose bucket or hydraulic thumb.



Hydraulic performance

Flow-sharing hydraulics, fitted as standard, maintain pressure and flow for multi-functional control. A hydraulic thumb attachment can be fitted to improve machine versatility for precise and careful placement of rocks or other objects.



Maintenance access

Save time with a one-piece tilting hood and grouped service and check points that are easily visible and accessible from ground level. Long greasing intervals for more uptime and lower operating costs.

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 into the left hand side cab steps. The wide and ample storage space, accessed and maintained in a safely-open position, allows for large objects to be stored safely outside of the cab. Can be locked with the machine key or personal padlock.



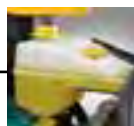
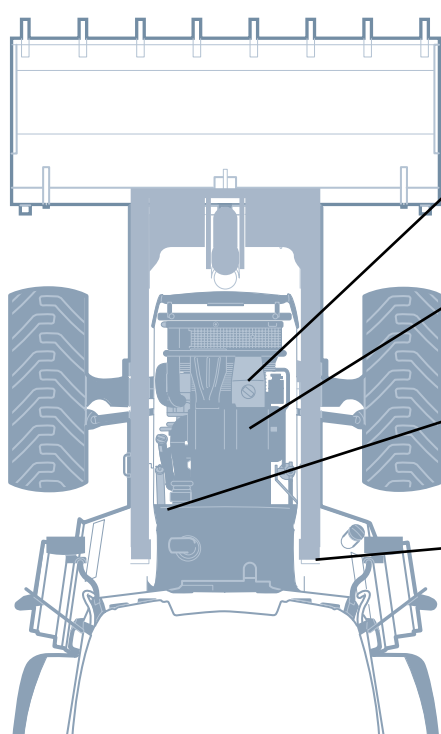
Fuse box access

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 checks.



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



Major components are equipped with quick and easy release-type drain plugs.



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

Loaded at both ends.



Spacious cab

Redesigned, roomier cab provides more space overhead and around the seat, with ample legroom and personal storage space.

Visibility

Large glass areas on all sides provide excellent, all-around visibility for more safety and faster work.



Serviceability

Easy, ground-level servicing with fewer greasing points enables fast daily maintenance.



Loader performance

High breakout forces delivered through a very durable loader linkage and powerful hydraulics.

Robust reliability

High-strength construction throughout the entire machine – from the heavy steel frame to the durable, high quality components.

Large tool box

Integrated in the cab steps to provide plenty of easily accessible storage for tools and batteries.

Differential lock

Engaged by foot switch, locking the rear differential to provide maximum grip in wet and slippery conditions.



Stylish residual value

Stylish, modern design and quality materials ensures low owning costs, pride of ownership and higher resale value.



Backhoe performance

Precision control and powerful performance derived from a harmony of design, linkage, engine and hydraulic system.



Flow-sharing hydraulics

Maintain pressure and flow for multi-functional control along with flow adjustment for precision attachment control.



CareTrack*

CareTrack enables usage monitoring, geographical tracking and service reminders, for improved machine management.

Versatility

Combined auxiliary line (double / single acting) for powerful control of a wide range of attachments – from breakers to thumbs and more.

* In markets where CareTrack is available

Versatile performer.

You have a wide range of jobs to do and the Volvo backhoe loader is the versatile performer that gives you the capability to handle a job from start to finish. Use a set of pallet forks for material handling. Break up pavement with a hydraulic breaker and remove the debris with a heavy-duty bucket. Excavate a trench, then lift and crane heavy pipe into place. Use a multi-purpose bucket to fill the opening with soil and perform landscape finishing. All this and more. One machine. One solution: your Volvo backhoe loader.



Hydraulic Quick Coupler

The Volvo Hydraulic Quick Coupler allows pin on interface attachments that can be connected and disconnected in standard position or face mode position. The coupler is designed not only for an excellent fit with Volvo backhoe loaders but is in line with the latest safety regulations. A mechanical Quick Coupler is also available.



Hydraulic Loader Attachment Bracket

Volvo TPV hydraulic attachment bracket allows easy and fast attachments interchangeability. 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.

Volvo Tooth System

The Volvo patented vertical locking device makes mounting and removing fast and easy.





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 catalog of services designed to get the most out of your machine, helping you maximize 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.

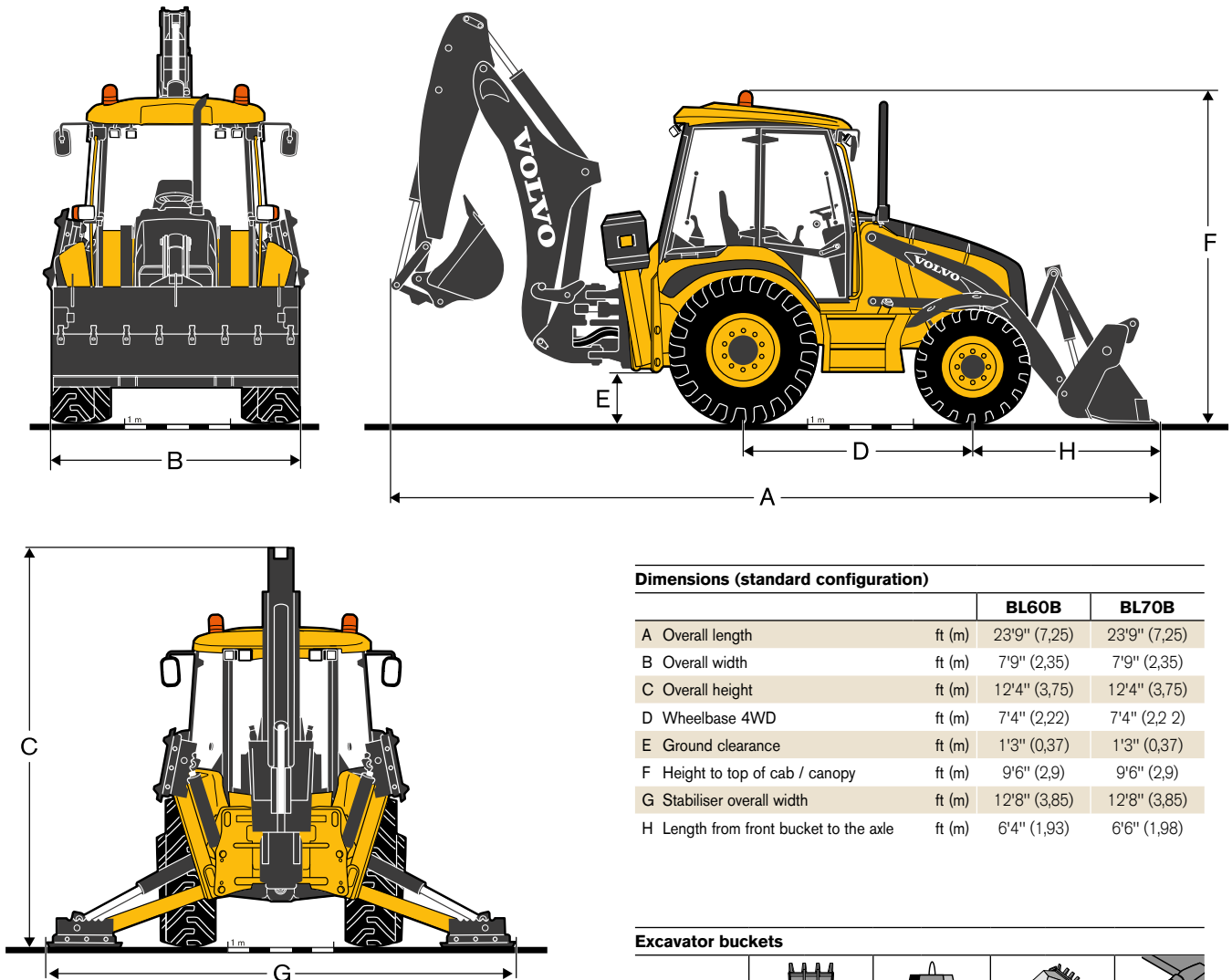


CareTrack*

Ask your dealer about getting your Backhoe Loader fitted with CareTrack, the state-of-the-art Volvo telematics system. CareTrack can give you the machine information needed for better planning and smarter working; such as daily usage reports, location reports and service maintenance reminders. You can save fuel. You can reduce costs. You can maximize profitability. You can with CareTrack.

* In markets where CareTrack is available





Specifications.



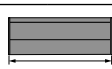


Dimensions (standard configuration)

		BL60B	BL70B
A	Overall length	ft (m) 23'9" (7,25)	23'9" (7,25)
B	Overall width	ft (m) 7'9" (2,35)	7'9" (2,35)
C	Overall height	ft (m) 12'4" (3,75)	12'4" (3,75)
D	Wheelbase 4WD	ft (m) 7'4" (2,22)	7'4" (2,2 2)
E	Ground clearance	ft (m) 1'3" (0,37)	1'3" (0,37)
F	Height to top of cab / canopy	ft (m) 9'6" (2,9)	9'6" (2,9)
G	Stabiliser overall width	ft (m) 12'8" (3,85)	12'8" (3,85)
H	Length from front bucket to the axle	ft (m) 6'4" (1,93)	6'6" (1,98)

Excavator buckets

							
	Width		Weight		Capacity		Nbr. Teeth
Standard Duty backhoe bucket	in (mm)	12" (310)	lb (kg)	214 (97)	cu yd (m³)	0.11 (0,08)	3
	in (mm)	16" (410)	lb (kg)	232 (105)	cu yd (m³)	0.14 (0,11)	3
	in (mm)	18" (450)	lb (kg)	254 (115)	cu yd (m³)	0.17 (0,13)	4
	in (mm)	25" (625)	lb (kg)	287 (130)	cu yd (m³)	0.25 (0,19)	4
	in (mm)	36" (925)	lb (kg)	368 (137)	cu yd (m³)	0.38 (0,29)	5
Heavy Duty backhoe bucket	in (mm)	12" (310)	lb (kg)	276 (125)	cu yd (m³)	0.11 (0,09)	3
	in (mm)	18" (465)	lb (kg)	324 (147)	cu yd (m³)	0.18 (0,14)	4
	in (mm)	25" (625)	lb (kg)	384 (174)	cu yd (m³)	0.26 (0,2)	5
	in (mm)	30" (765)	lb (kg)	437 (198)	cu yd (m³)	0.34 (0,33)	6
Fixed ditching backhoe bucket	in (mm)	36" (925)	lb (kg)	489 (222)	cu yd (m³)	0.42 (0,33)	6
	in (mm)	47" (1 200)	lb (kg)	298 (135)	cu yd (m³)	0.22 (0,17)	0
	in (mm)	59" (1 500)	lb (kg)	348 (158)	cu yd (m³)	0.27 (0,21)	0

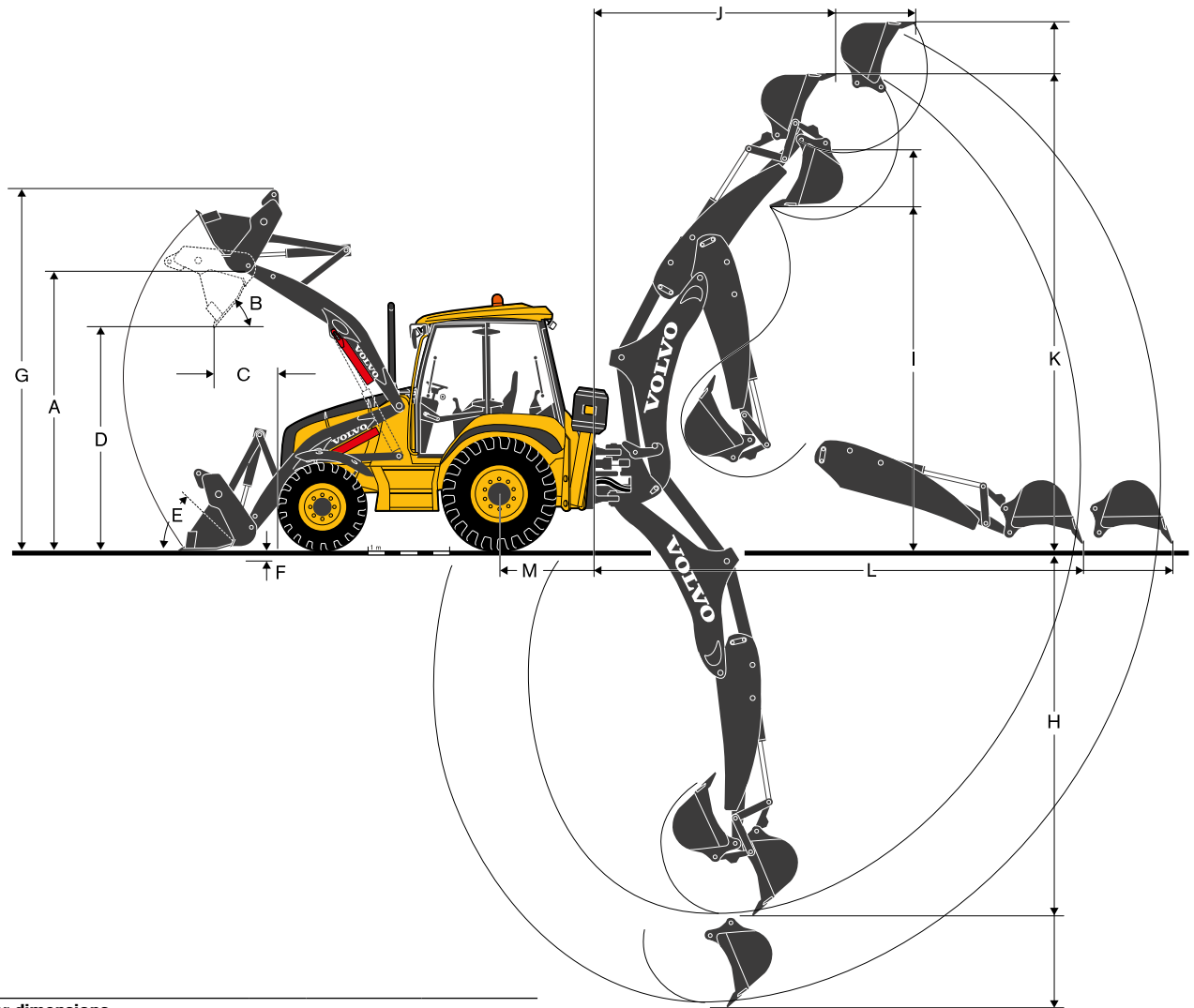
Loader buckets

						
	Width		Weight		Capacity	
General Purpose bucket	in (mm)	7'5" (2 250)	lb (kg)	761 (345)	cu yd (m³)	1.0 (0,8)
General Purpose bucket	in (mm)	7'9" (2 350)	lb (kg)	1,047 (475)	cu yd (m³)	1.3 (1,0)
Multi Purpose bucket	in (mm)	7'9" (2 350)	lb (kg)	1,742 (790)	cu yd (m³)	1.3 (1,0)

Engine	BL60B	BL70B
Low-emission engine conforming EPA Tier 3 and Stage IIIA regulations, direct-injection, turbocharged, 4 cylinders, 4.8l displacement, liquid-cooled Volvo diesel engine.		
Model	Volvo D5D CDE3	
Compression ratio	18.1:1	
Stroke	ft (mm)	5.12 (130)
Net power (ISO 9249 / DIN 6271) at rated engine speed	kW (hp)	62 (83) 68 (91)
Gross power (ISO 14396) at rated engine speed	kW (hp)	64 (86) 70 (94)
Rated speed	rpm	2 200
Maximum torque net at 1600 rpm (ISO 9249/DIN 6271) - Nm	Nm	380 400
		400 420
Weight		
Operating weight min / max	lb (kg)	15,410 / 20,459 16,777 / 21,671 (6 990 / 9 280) (7 610 / 9 830)
Hydraulic system		
Fix flow, open centre, gear pump		• •
Variable flow, closed centre, load sensing		- •
Max. flow us gal/min (l/min)	30 (112)	44 (163)
Working pressure excavator	psi (bar)	3,626 (250) 3,626 (250)
Working pressure loader	psi (bar)	3,191 (220) 3,626 (250)
Flow sharing		• •
Drivetrain		
Front axle		
	lb	15,737
Load rating - dynamic (*Heavy Duty axle)	lb (kg)	21,356* 21,356* (7 138) (9 687*)
	(kg)	(9 687*)
	lb	39,341
Load rating - static (*Heavy Duty axle)	lb (kg)	533,391* 533,391 (24 218) (24 218)
	(kg)	(24 218*)
Max oscillation at wheel	°	16
Rear axle		
Load rating - dynamic	lb (kg)	16,861 (7 648)
Load rating - static	lb (kg)	42,152 (19 120)
Differential locking (electro hydraulic control)	%	100
Steering		
Hydrostatic load sensing steering with protected double acting single cylinder behind the front axle with remote grease fitting for axle pivot pin.		
Steering angle	°	55
Turns to lock		4
Axle oscillation (on each side)	°	16 (8)
Turning radius between curbs 2WD with brakes / without brakes	ft (m)	10'2" / 12'6" (3,1 / 3,8) -
Turning radius between walls 2WD with brakes / without brakes	ft (m)	15'5" / 17'5" (4,7 / 5,3) -
Turning radius between curbs 4WD with brakes / without brakes	ft (m)	10'9" / 15'1" (3,3 / 4,6) 10'9" / 13'5" (3,3 / 4,1)
Turning radius between walls 4WD with brakes / without brakes	ft (m)	16'1"/19'0" 16'1" / 19'4" (4,9 / 5,8) (4,9 / 5,9)
Transmission		
Four forward and reverse fully synchronized gears. Powershuttle mechanical or powershift electro-hydraulic, fully automatic mode on 4th gear. Electro-hydraulic forward/reverse lever on steering column (switch on loader pilot control BL70B).		
Travel speed		
Powershuttle		
1 st gear	mph (km/h)	3.4 (5,5) 3.2 (5,2)
2 nd gear	mph (km/h)	5.5 (8,8) 5.2 (8,4)
3 rd gear	mph (km/h)	11 (17,7) 10.6 (17)
4 th gear	mph (km/h)	22 (35,4) 21.1 (34)
Powershift		
1 st gear	mph (km/h)	3.5 (5,6) 3.3 (5,3)
2 nd gear	mph (km/h)	5.6 (9,1) 5.4 (8,7)
3 rd gear	mph (km/h)	11.4 (18,3) 10.9 (17,6)
4 th gear	mph (km/h)	21.6 (34,7) 20.7 (33,3)

Brakes	BL60B	BL70B
Service brakes type: 2 disk-plates per side, oil-immersed, servo power-assisted, self adjusting outboard disk brakes. Parking brake type: External disk on input shaft.		
Electrical system		
STD 12 V. weatherproof connections, 750 CCA battery, w/ dual battery option, STD 95-amp alternator (charging voltage: 13.8 V)		
Service fill capacities		
Fuel system	us gal (l)	40 (150)
Hydraulic system	us gal (l)	37 (140)
Cooling system	us gal (l)	5.8 (22)
Hydraulic reservoir	us gal (l)	12.6 (48)
Engine oil (including filter)	us gal (l)	3.7 (14)
Front axle oil capacity (including differential and hubs)	us gal (l)	2.1 (8,1)
Rear axle oil capacity (including differential and hubs)	us gal (l)	3.8 (14,5)
Transmission oil capacity		
Power shuttle	us gal (l)	5.5 (21)
Power shift	us gal (l)	5.7 (21,5)
A/C system capacity	lb (kg)	3.5 (1,6)
A/C performance		21,000 (6,15)
Heater performance	BTU's (kW)	40 ,900 (12)
Backhoe performance		
Narrow and curved excavator boom has a closed box-welded construction with fewer components and welds to guarantee a superior strength, includes a switch activated boom lock and manual swing locking pin. The kingpost is composed of cast iron to allow flexible movement and swing. Extendible arm increases the reach by 1 m. Weekly (50-hour) greasing interval.		
Standard arm		
Bucket width	in (mm)	24 (610)
Bucket capacity	cu ft (m³)	7.1 (0,2)
Bucket breakout force ISO / SAE J1179	lbf (kN)	12522 / 11,240 14,028 / 12,589 (55,7 / 50) (62,4 / 56)
Arm tearout force SAE J1179	lbf (kN)	7,329 (32,6) 8,722 (38,8)
Bucket rotation	°	205
Extendible arm		
Bucket width	in (mm)	24 (610)
Bucket capacity	cu ft (m³)	7.1 (0,2)
Bucket breakout force retracted or extended ISO / SAE J1179	lbf (kN)	12522 / 11,240 14,028 / 12,589 (55,7 / 50) (62,4 / 56)
Arm tearout force retracted / extended SAE J1179	lbf (kN)	7,329 / 5,463 8,722/6,497 (32,6 / 24,3) (38,8 / 28,9)
Bucket rotation	°	205
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 cylinders. Weekly (50-hour) greasing interval.		
Lift capacity at full height		
GP Bucket, pin on, 1 cu ya (0.8 m³)	lb (kg)	6,658 (3 020) -
GP/MP Bucket, pin on, 1.3 cu ya (1 m³)	lb (kg)	6,239 / 5,798 7,319 / 6,900 (2 830/2 630) (3 320/3 130)
Bucket breakout force		
GP Bucket, pin on, 1 cu ya (0.8 m³)	lbf (kN)	11,690 (52) -
GP/MP Bucket, pin on, 1.3 cu ya (1 m³)	lbf (kN)	10,184 / 9,824 12,837 / 12,477 (45,3/43,7) (57,1/55,5)
Loader arm breakout force		
GP Bucket, pin on, 1 cu ya (0.8 m³)	lbf (kN)	11,623 (51,7) -
GP/MP Bucket, pin on, 1.3 cu ya (1 m³)	lbf (kN)	10,903 / 10,229 12,454 / 11,892 (48,5/45,5) (55,4/52,9)
Tires (Standard)		
Front 2WD		11L x 16, 12 PR -
Front 4WD		12L x 16.5, 10 PR 12.5/80-18, 14 PR
Rear		19.5L x 24, 12 PR 19.5L x 24, 10 PR
Noise level		
Inside cab	dB(A)	75
Outside cab	dB(A)	102

Specifications.



Loader dimensions		BL60B	BL70B
A Height to loader hinge pin	ft (m)	11' (3,35)	11'2" (3,40)
B Dump angle (GP bucket, pin on)	°	51	49
C Dump reach at 45° (GP bucket, pin on)	ft (m)	3'5" (1,03)	3'4" (1,02)
D Dump height at 45° (GP bucket, pin on)	ft (m)	9'1" (2,78)	9'2" (2,80)
E Bucket rollback at ground level (GP bucket, pin on)	°	46	45
F Maximum digging depth (GP bucket, pin on)	ft (m)	0'11" (0,29)	0'8" (0,21)
G Maximum operating height (GP bucket, pin on)	ft (m)	13'6" (4,10)	14'2" (4,31)
Max. grading angle (GP bucket, pin on)	°	117	115

Backhoe dimension - Standard arm*		BL60B	BL70B
H Maximum digging depth (SAE)	ft (m)	14'7" (4,45)	14'11" (4,54)
Digging depth SAE 2 ft (0,61 m) flat bottom	ft (m)	14'6" (4,43)	14'10" (4,51)
Digging depth SAE 8 ft (2,44 m) flat bottom	ft (m)	13'6" (4,11)	13'9" (4,18)
I Loading clearance	ft (m)	12'2" (3,72)	11'11" (3,62)
J Loading reach at maximum height	ft (m)	8'3" (2,51)	8'8" (2,64)
K Operating height	ft (m)	19'1" (5,81)	18'9" (5,72)
L Reach from swing post at ground level	ft (m)	19'11" (6,03)	19'9" (6,03)
M Reach from rear axle	ft (m)	23'6" (7,17)	23'6" (7,17)

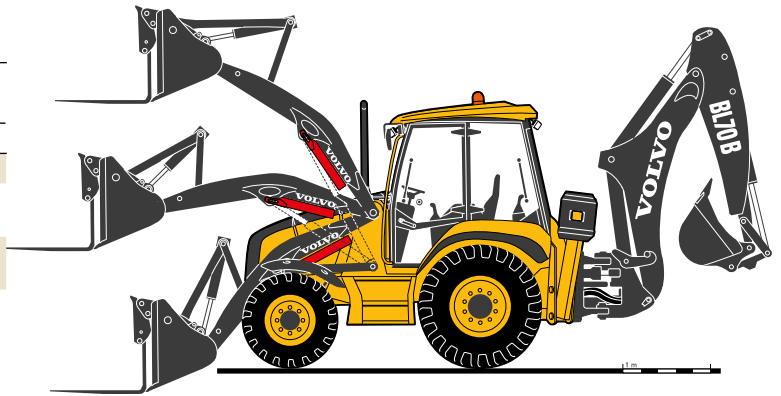
Backhoe dimension - Extendible arm*		BL60B	BL70B
H Maximum digging depth (SAE) Ret	ft (m)	14'7" (4,45)	14'11" (4,54)
Maximum digging depth (SAE) Ext	ft (m)	18'1" (5,52)	18'4" (5,60)
Digging depth SAE 2 ft (0,61 m) flat bottom Ret	ft (m)	14'6" (4,43)	14'10" (4,51)
Digging depth SAE 2 ft (0,61 m) flat bottom Ext	ft (m)	18'0" (5,49)	18'3" (5,56)
Digging depth SAE 8 ft (2,44 m) flat bottom Ret	ft (m)	13'6" (4,11)	13'9" (4,19)
Digging depth SAE 8 ft (2,44 m) flat bottom Ext	ft (m)	17'2" (5,23)	17'5" (5,31)
I Loading clearance Ret	ft (m)	12'3" (3,72)	11'11" (3,63)
Loading clearance Ext	ft (m)	14'3" (4,36)	13'11" (4,26)
J Loading reach at maximum height Ret	ft (m)	8'2" (2,50)	8'8" (2,63)
Loading reach at maximum height Ext	ft (m)	11'0" (3,36)	11'6" (3,51)
K Operating height Ret	ft (m)	19'1" (5,82)	18'9" (5,72)
Operating height Ext	ft (m)	21'2" (6,45)	20'9" (6,33)
L Reach from swing post at ground level Ret	ft (m)	19'9" (6,03)	19'9" (6,03)
Reach from swing post at ground level Ext	ft (m)	23'0" (7,00)	23'0" (7,00)
M Reach from rear axle Ret	ft (m)	23'6" (7,17)	23'6" (7,18)
Reach from rear axle Ext	ft (m)	26'9" (8,14)	26'9" (8,16)
Swing torque	lbf (kN)	19,177 (26)	

* with Quick coupler

Loader lift capacity.

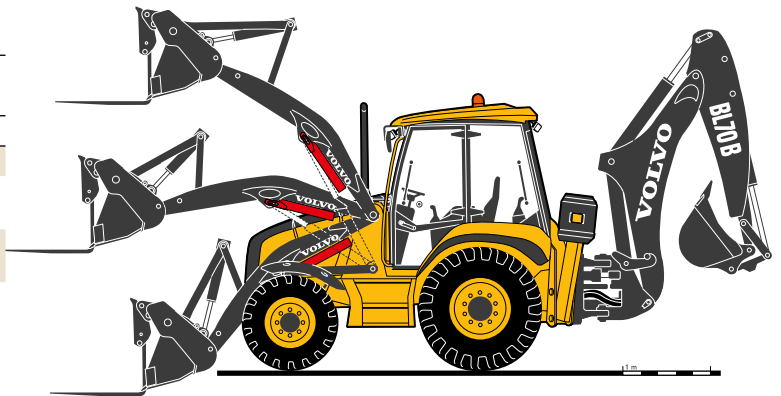
Operating Specifications with flip-over forks on a GP bucket*

		BL60B	BL70B
Fork Tine Length	in (mm)	42" (1 070)	
Load centre of gravity position (according to ISO 2330)	in (mm)	1'8" (500)	
Operating load	lb (kg)	3,260 (1 480)	3,920 (1 780)



Operating Specifications with flip-over forks on a MP bucket*

		BL60B	BL70B
Fork Tine Length	in (mm)	42" (1 070)	
Load centre of gravity position (according to ISO 2330) load	in (mm)	1'8" (500)	
Operating load	lb (kg)	2,950 (1 340)	3,620 (1 640)



Operating Specifications with pallet-forks on loader attachment bracket

		BL60B	BL70B
Fork Tine Length	in (mm)	48" (1 200)	
Load centre of gravity position (according to ISO 2330)	in (mm)	1'8" (500)	
Operating load	lb (kg)	5,030 (2 280)	5,800 (2 630)

* According ISO 14397-1;SAE J732 standard dipper equipped with 300 mm bucket, canopy



Cycle times w/ GP Bucket

Loader Cycle Times w/ GP bucket (sec.)	BL60B	BL70B
Raise to full height	4.1	4.6
Dump time	1.9	1.8
Curl time	2.4	2.3
Lower	3.4	3.1

Backhoe lift capacity BL60B.

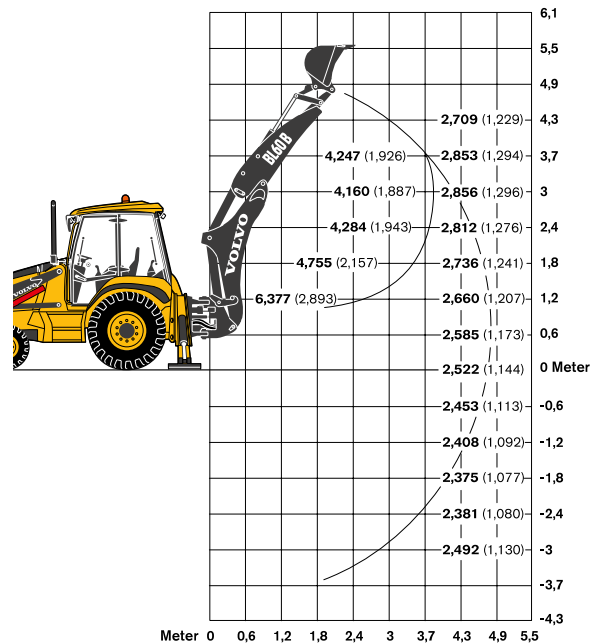
Lift capacity figures comply with SAE J31.
All figures are stated in pounds (kilograms).

The large arc indicates boom-lift.

The small arc indicates dipper-lift with the boom
at 63 degrees.

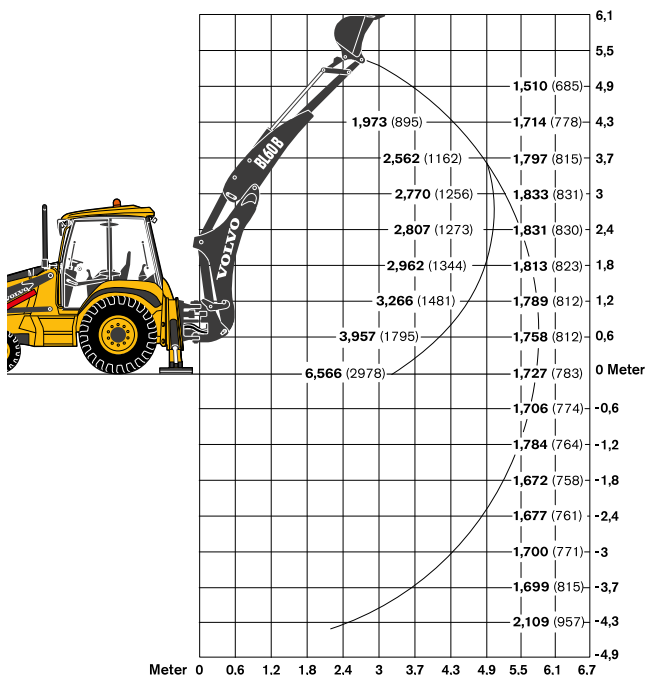
BL60B Backhoe with Standard Dipper

Equipped with 24" (610 mm) heavy-duty backhoe bucket, 1.3 cu. yd. (1 m³) heavy-duty loader bucket, 11-16 SL front tires, 19.5L-24 rear tires



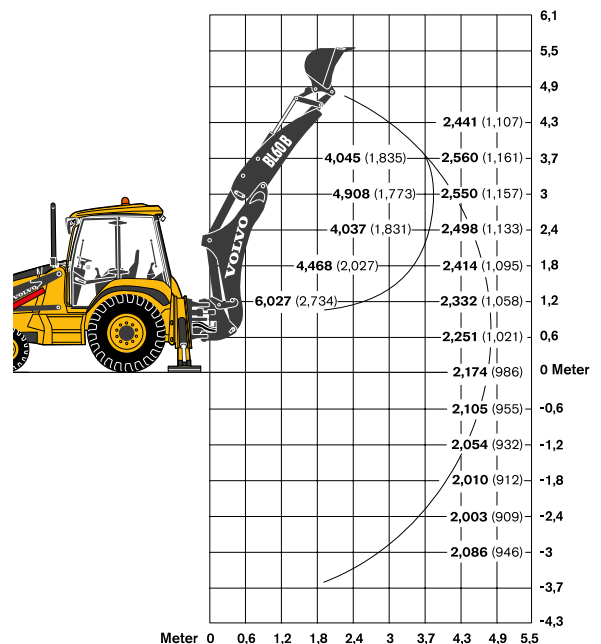
BL60B Backhoe with Extendible Dipper, Extended

Equipped with 24" (610 mm) heavy-duty backhoe bucket, 1.3 cu. yd. (1 m³) heavy-duty loader bucket, 11-16 SL front tires, 19.5L-24 rear tires



BL60 Backhoe with Extendible Dipper, Retracted

Equipped with 24" (610 mm) heavy-duty backhoe bucket, 1.3 cu. yd. (1 m³) heavy-duty loader bucket, 11-16 SL front tires, 19.5L-24 rear tires



Backhoe lift capacity BL70B.

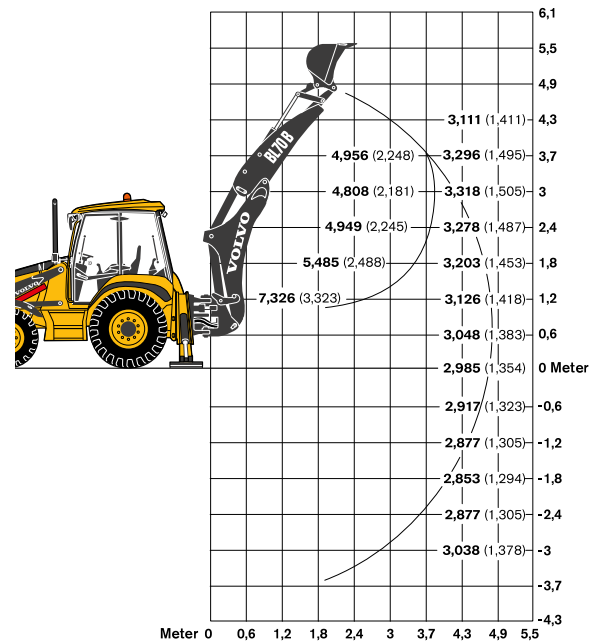
Lift capacity figures comply with SAE J31.
All figures are stated in pounds (kilograms).

The large arc indicates boom-lift.

The small arc indicates dipper-lift with the boom
at 63 degrees.

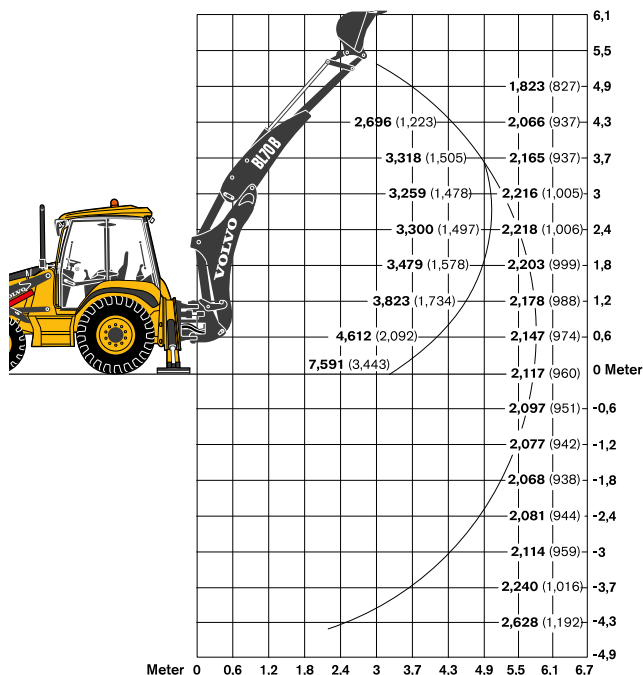
BL70B Backhoe with Standard Dipper

Equipped with 24" (610 mm) heavy-duty backhoe bucket, 1.3 cu. yd. (1m³) heavy-duty loader bucket, 12.5/80x18 front tires, 19.5L-24 rear tires



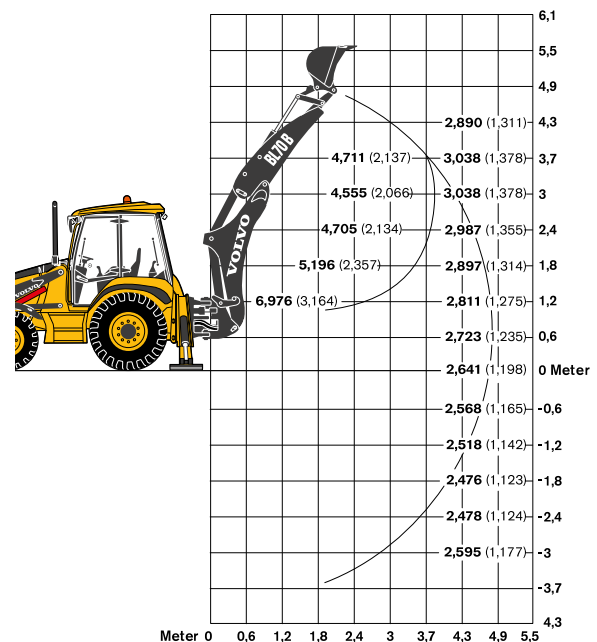
BL70B Backhoe with Extendible Dipper, Extended

Equipped with 24" heavy-duty backhoe bucket, 1.3 cu. yd. heavy-duty loader bucket, 12.5/80x18 front tires, 19.5L-24 rear tires



BL70B Backhoe with Extendible Dipper, Retracted

Equipped with 24" (610 mm) heavy-duty backhoe bucket, 1.3 cu. yd. (1m³) heavy-duty loader bucket, 12.5/80x18 front tires, 19.5L-24 rear tires



Equipment.

STANDARD EQUIPMENT

	BL60B	BL70B
Engine		
Volvo D5D (4.8 l) turbocharged diesel	•	•
83 SAE Net hp (62kW) / Gross 86 hp (64kW)	•	
91 SAE Net hp (68kW) / Gross 94 hp (70kW)		•
meets EPA Tier 3/Stage 3A compliance requirements	•	•
Engine fan guard	•	•
Ground line fuel fill with 40 gallons (150 liter) capacity	•	•
Front grill	•	•
Tilting cooler	•	•
Flip-open, rear-tilting, one-piece engine hood for ease of service	•	•
Electrical System		
Battery, 750 CCA	•	•
Hydraulic System		
Hydraulic oil cooler	•	•
Constant flow on loader MP hydraulics		•
Driveline		
Two wheel drive	•	
Four wheel drive		•
Differential lock	•	•
Fast reversing shuttle, all gears	•	•
Torque convertor	•	•
Four-speed powershuttle transmission	•	•
Forward / Reverse / Neutral and transmission de-clutch buttons on loader joystick		•
Transmission de-clutch button on loader mechanical control	•	
Brake pedals operable either independently or interlocked	•	•
4WD assist braking above 12.5 m/h (20 km/h)	•	•
Power steering	•	•
Tyres - bias	•	•
Throttles, hand and foot	•	•
Loader		
Arms with dual lift cylinders and single, center-mounted dump cylinder	•	•
Pilot control joystick		•
Mechanical control levers	•	
Hydro-mechanical self-leveling system, loader arm float and bucket return-to-dig	•	•
Backhoe		
Center mount backhoe excavator	•	•
Electro-hydraulic boom transport lock	•	•
Swing transport lock	•	•
2 mechanical levers ISO or SAE	•	•
Cab (ROPS / FOPS level 2)		
Refer to Cab configuration matrix	•	•
Service and Maintenance		
Gauges:		
Coolant temperature	•	•
Fuel level	•	•
Hour recorder	•	•
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	•	•
Seat belt not fasten	•	•

	BL60B	BL70B
Large tool box - external	•	•
50-hour greasing intervals	•	•
Horn	•	•
Warning buzzer	•	•
Integrated safety strut	•	•

OPTIONAL EQUIPMENT

	BL60B	BL70B
Engine		
91 SAE Net hp (68kW) / Gross 94 hp (70kW)	•	
98 SAE Net hp (73kW) / Gross 100 hp (74,9kW)		•
Cyclonic pre-filter	•	•
Electrical System		
Battery, additional	•	•
Hydraulic System		
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		
Four wheel drive	•	
Fully automatic powershift transmission with kick down button at loader control and speedometer	•	•
Speedometer for powershuttle transmission	•	•
Drive shaft guard	•	•
Front fenders		•
Boom suspension system	•	•
18" front tyres	•	
Tyres - radial		•
Backhoe		
Extendible arm	•	•
Pilot controls with SAE/ISO pattern switch		•
SAE and ISO backhoe joystick pattern switchable by electric in cab switch (BL70B)		•
No lifting eye	•	•
Lifting eye	•	•
Others		
Reversing alarm	•	•
Stabilizer street pads (Standard feet)	•	•
Stabilizer guard	•	•
Flipover feet	•	•
King post guard	•	•
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	•	•

BL60B/BL70B CAB CONFIGURATION

	Canopy		Cab		
	Standard BL43003	Deluxe BL43007	Basic BL40004	Standard BL45005	Deluxe* BL40006
• = Standard ○ = Option					
Doors and windows					
Left hand door only			•		
Doors with fixed window(s), includes plastic door trim				•	
Doors with openable windows, includes plastic door trim					•
Front windshield and wiper	○	•	•	•	•
Opening rear side windows			•	•	•
One-piece opening rear window and wiper			•	•	•
All tinted glass	○	•	•	•	•
Roof					
Plastic Roof	•	•	•	•	•
Headliner			•	•	•
Power socket x 2 - External Rotating beacon switch	•	•	•	•	•
Seat					
Seat - Std (vinyl, mechanically suspended)	•	•			
Seat - Std (cloth, mechanically suspended)			•	○	
Seat - Comfort (fabric, air suspended and heated)				○	•
Arm rest	○	○	○	○	
Back rest				○	○
Seat belt -(2")	•	•	•	•	•
Seat belt - Wide (3")	○	○	○	○	○
Steering column					
Fixed steering column	○	○	○		
Tilt steering column	○	○	○	•	
Tilt and telescopic steering column					•
Steering wheel knob	○	○	○	○	○
Visibility					
Interior rearview mirror	•	•	•	•	•
Additional interior rearview mirror					
External rearview mirrors	•	•	•	•	•
Rear work lights x 2 (outer position)	•	•	•	•	•
Front work lights x 2 (outer position)	•	•	•	•	•
Additional lights x 4 (inner position)	○	○	○	•	•
Dome light			•	•	•

Safety

Anti theft**					
Vandal guard		•			
Support for fire extinguisher	○	○	○	○	○
Support bracket for first aid kit (aid kit not provided)	○	○	○	○	○
Caretrack GSM	○	○	○	○	○
Caretrack Satellite	○	○	○	○	○

Other

Coat hook	•	•	•	•	•
Mobile phone support	•	•	•	•	•
Left hand storage open	•		•		
Left hand storage with lid			•		•
Front right hand side storage lockable	•	•	•	•	•
Air conditioning with cooled front storage			○	○	○
Rear storage net pocket				•	•
Rubber mats for the storages				•	•
Roof shelf					•
Power socket	•	•	•	•	•
Sun visor		•	•	•	•
Speedometer km/h - mph	○	○	○	○	○
Radio preparation (antenna + speakers + support + 2 nd power socket + mute switch)			○	○	•
Radio with CD player and MP3 connection			○	○	○
Radio + CD player			○	○	○
MP3 connection			○	○	○

* Deluxe on BL70B only

** No key pad. Function included in right instrument panel display

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

First aid kit and extinguisher brackets



Flip over foot



Stabilizer guard



Powershift



Drive shaft guard



Air conditioning



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VOLVO

Volvo Construction Equipment

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