

VOLVO WHEEL LOADERS

RECYCLING & WASTE HANDLING



MORE CARE. BUILT IN.



VOLVO IS A VITAL PART IN THE RECYCLING SYSTEM

Volvo wheel loaders support waste handling all the way round in the never-ending business of recycling. Well-matched Volvo drivetrains, hydraulics and attachments offer an optimal combination of performance, fuel economy and environmental care. The growing range of Volvo machines and equipment for your operation will help you collect, load, transport, sort, reload and handle waste – and turn it in to new resources.

Machines for all types of waste handling

Transfer stations, recycling stations and landfill sites, and even local work and operating conditions can vary quite a lot. That is why there is no single standard solution that suits all types of handling and facilities. But with Volvo's complete range of protective equipment and recycling and waste handling attachments, you can tailor your loader exactly for your conditions.

Power and agility for fast work cycles

The standard versions of Volvo's wheel loaders are already built for tough environments and are renowned for their high productivity and low fuel consumption. The high-performance engines provide a lot of power and have excellent response and bucket movements are smooth and comfortable. All genuine attachments and optional equipment are purpose-built for recycling and waste handling, and offer the same high quality as the rest of the machine.

A lifetime partner in a never-ending business

At Volvo, our business is not just about supporting our customers – it's about taking care of our world as well. When you opt for Volvo values, our commitment to quality, safety and environmental care becomes an integral part of your operation. One world is all we've got. One partner is all you need.

More than 95 percent recyclable

Today our wheel loaders are almost completely recyclable. Components such as engine, transmission and hydraulics are overhauled and re-used in our exchange system.





DEVELOPED TO HANDLE THE TOUGHEST OF ENVIRONMENTS

Waste handling is tough on both operator and machine. It's fast-paced, the environment is noisy and extremely dusty, and operating space is usually tight. Many standard features on Volvo wheel loaders have been specifically developed to withstand the abuse encountered in the tough environments of waste handling.

Effective filters protect both man and machine

Many waste facilities are extremely dusty, which not only may reduce air quality in the cab but may also damage vital machine parts. That's why Volvo has more filters than any other wheel loader on the market, to protect both the operator and the machine. With a filter system in a class all of its own on the market, the air in the cab is always clean, and dust and dirt don't get into the engine, transmission, axles, hydraulic system or the fuel tank. Our optional equipment protects exposed machine parts from damage, and also makes for easier cleaning, service and maintenance. All this gives more time for sorting and handling of waste, as well as Volvo wheel loaders with longer operating lives.

Heavy-duty countershaft transmission with responsive torque converter

The transmission is designed to handle not only the quick and frequent shifts in tight, short cycle loading applications, but also the extra weight from application-specific tires and protective equipment.

Engine insulated from the cooling system

The insulation reduces debris entering the engine compartment, which reduces the risk of fires.

Exhaust heat insulation

Extra insulation for turbo, exhaust manifold and flexible exhaust pipe reduces heat radiation. Recommended in applications where combustible materials can easily ignite and cause engine fires.

Low temperature, insulated muffler

The insulated muffler reduces the risk for combustible material to ignite in the engine compartment.

100 percent differential lock on front axle

The lock reduces tire spin on slippery, often wet waste-covered concrete floors for faster loading times and increased productivity.

Torque Parallel Linkage

The Volvo TP-Linkage combines high breakout torque with parallel lift throughout the entire lifting range, making it easy to load the bucket and reduce spillage. Other design attributes include optimum visibility and excellent protection of the working components.

Well protected electrical system

All electric cabling is well protected from water, dirt, and wear in solidly fastened, heavy-duty conduits with rubberized connectors and terminal caps. Electrical components, including the fuse box, are well protected inside the cab.





TAKING CARE OF BUSINESS

Volvo Care Cab is a safety-conscious work place, stress and vibration free. Climate control and fingertip operation of the load-sensing hydraulics actually make the hard work of waste handling quite comfortable. That's why Care Cab will help you to get more done.

A great work place

You really feel welcome in Volvo's latest cab. It's both wider and deeper than it's predecessor. There is lots of space to stretch out your legs, and ample space for storage boxes, boots, and cups. The large, swept windshield gives excellent visibility in every direction, up high as well, making it easy to load even with Long Boom*. To facilitate communication with others on the site, there is a sliding window on right side. All instruments are easy to read, and on the right side all buttons are very easily accessible on a sturdy aluminium pillar. Several seats and adjustment features make it easy to find a comfortable operating position.

Always a comfortable climate

Volvo's unique and patented two-stage cleaning recirculates up to 90 percent of the air, and only 10 percent comes from the outside. The air in the cab is cleaned to 98 percent. Automatic Heat Control (AHC) is standard and ensures a comfortable temperature in the cab. And if the operator needs a break, the heat* can be left on even with the engine off, which both saves fuel and protects the environment.

Waste handling at your fingertips

With lever steering Comfort Drive Control, (CDC)*, the operator can handle steering and shifting forward/reverse with controls in the left armrest to avoid static muscle loads. Pilot-operation with Electro hydraulic control* increases comfort.

* Optional equipment





BUILT TO RUN. SUPPORTED FOR LIFE

When you invest in a Volvo wheel loader, you get a waste handler of the very highest quality. But of course, even the best machines need service and maintenance to be as productive tomorrow as they are today. Customer Support will help you to keep an eye on your owning and operating costs.

We care about your operation - anywhere at anytime

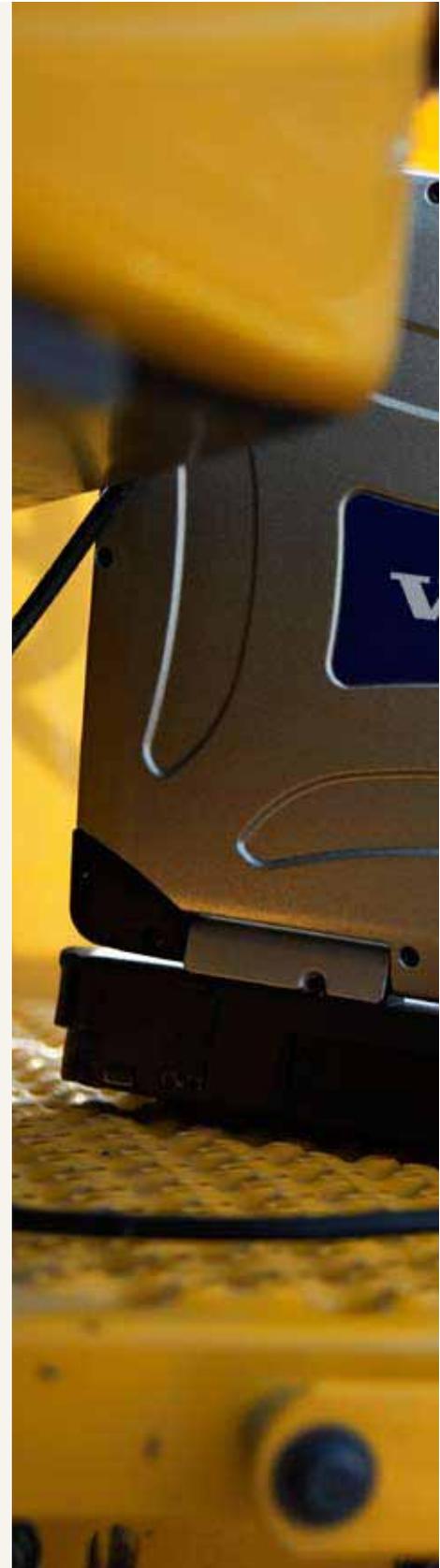
Volvo Construction Equipment centers around a professional Customer Support organization, providing parts supply, aftersales services and training. All this gives customer benefits through controlled owning and operating costs. When you invest in a Volvo wheel loader, the availability of good service and access to genuine Volvo parts are just as important as the price. After all, it is the total cost during the machine's entire life that's interesting. With all the products and resources we have at our disposal, we can offer you the best support. Anywhere, anytime.

Four levels of support, one level of care

The best way to get the most out of your Volvo wheel loader is to invest in a Volvo Customer Support Agreement. There are four levels of agreements designed to give you total peace of mind; white, blue, silver, and – of course – gold, which includes all service, maintenance and repairs during the whole contract period at a fixed price. From this completely flexible starting point, we can create an agreement uniquely tailored to the needs of your business and the age of your loaders.

Genuine Volvo parts leave nothing to chance

Each genuine Volvo part is developed for and manufactured together with all other machine components. It's a complete system where each part works in perfect harmony with other parts. Only by using genuine parts can you be sure that your machine retains the qualities and features we gave it from the beginning.





OPTIONS TO BOOST YOUR MACHINE PERFORMANCE



Selection of Volvo optional equipment

Boom Suspension System (BSS)

BSS effectively absorbs shocks and reduces the bouncing and rocking that often occurs when operating on rough ground. Volvo's Boom Suspension System offers two different operating modes for faster cycle times, higher productivity and improved operator comfort in all types of applications.

Hydraulic Attachment Bracket

With the hydraulic attachment bracket, you can use the wheel loader in different applications where special machines are otherwise required, e.g. pallet forks, material handling arm, sweeper, high-tip bucket.

Comfort Drive Control (CDC)

Lever steering CDC enables the operator to handle steering, shifting forward-reverse, and kick-down with controls in the left armrest. At any time, the operator can change between steering with steering wheel and CDC to avoid static muscle loads.

Electro-hydraulic control

Pilot-operation with electric-servo hydraulics increases comfort with lighter lever forces and high precision. Adjustable lift and bucket angles, Return-to-dig, and end-position damping are built-in functions. 3rd and 4th hydraulic functions enable use of hydraulically attachments.

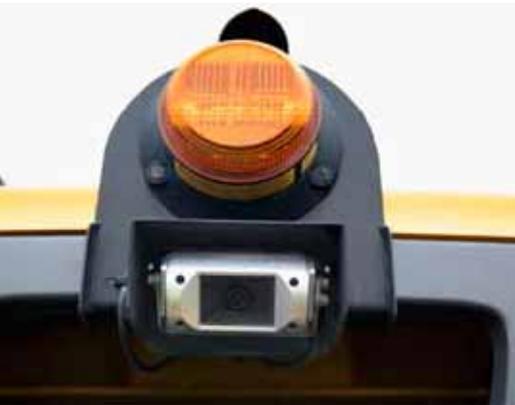
Long boom

Long boom gives the extra dump height and reach necessary for loading high container trucks or feeders. The additional reach also gives added protection when loading the bucket by keeping the machine further away from the material.

CareTrack telematics system

Remote monitoring of the machine's position, utilization, and productivity. Forwarding of error codes, alarms, and service reminders. Position on map plus Geo- & Time-fence functions.

OPTIONS TO MAKE A GREAT WORK PLACE EVEN SAFER



Selection of Volvo protection equipment

Windshield guard, side and rear window guards

The windshield guard protects both the cab glass and operator from debris. It is custom designed purpose-built to minimize glass breakage while maximizing visibility.

The two side window guards are hinged for easy cleaning and maintenance, while the rear window guard can easily be removed using two quick-coupling latches.

Rear-view camera system

Rear-view camera system reduces blind spots and increases site safety when reversing and also improves operator comfort

Cab Air Filter for Asbestos Environment

Protects the operator in conditions where the air is contaminated with asbestos or other small, harmful particles.

Cab air pre-cleaner

The cab air pre-cleaner is specially designed for very dusty applications. The pre-filter unit is mounted at the back of the cab above the rear window.

Cab ladders, rubber-suspended

Flexible rubber side members have been extended to support two steps of the cab access ladders. In addition to being flexible, they have also been brought closer to the machine, making it difficult to damage or destroy the ladders in extreme conditions.

OPTIONS TO PROTECT YOUR INVESTMENT



Boom cylinder, hose and pipe guards

Designed to protect the boom cylinder, hoses and pipes, these "box-type" structures prevent debris from breaking the hoses and/or pipes when debris becomes trapped between the front frame and the boom cylinders. Steel spiral hose guards and a protective plate are used to cover the hoses connecting the boom cylinders to the main valve.

Relocated headlight assemblies

The headlight assemblies have been moved closer to the front frame to reduce the risk of damage.

Headlight guards

Protect the headlights, work lights, and turn signals from debris that may break or damage the lenses.

Tail light guards

Protect the tail lights and turn signals from debris that may break or damage the lenses.

Exterior radiator air intake protection

Designed to limit debris entry into the engine compartment without sacrificing cooling capacity. Three separate screens are used to protect the areas where air is drawn in, the top and on each side of the engine.



Battery boxes, steel

Steel battery boxes replace the plastic battery box covers in order to better protect the batteries from damage.

Front frame cover plate

Prevents debris from collecting inside the front frame while also protecting the main hydraulic valve and its connections from possible damage.

Steer cylinder- and Center hinge guards

Provide protection for exposed parts in the center hinge area, including the steer cylinders, transmission, as well as hydraulic and electrical lines and connections. A transmission dipstick replaces the transmission oil sight gauge for easy monitoring of the transmission oil level.

Grease tube guards

Protective guarding is used to cover exposed grease tubes and zerks where possible. Some grease tubes are changed to heavy-duty thick wall tubes.

Wheel/axle seal guards

Designed to keep material from wrapping around the axles during operation and damaging the axle seals.

Under cab guard

Designed to protect the components located directly underneath the cab, including the steering valve, hydraulic connections, and electrical wiring.



Radiator grille guard

Protects the grille, cooling fan, radiator, and condenser cores from damage when working in severe applications. It is hinged to facilitate easy cleaning and maintenance.

Air Pre-cleaners

Air pre-cleaners are available for even better filtering of the engine induction air. In addition to higher cleaning capacity, these air pre-cleaners are highly recommended in fire-hazardous applications, as they are not connected to the exhaust system.

Front and rear mudguard

The front mudguards can be removed to reduce any possibility of debris interfering with the motion of the wheels and/or tires.

The front mudguards and rear mudguard wideners can be removed to prevent interference and/or damage.

Belly guard, front/rear

Completely encloses the components located within the front/rear frame between the center hinge and the front/rear axle, including the driveshaft, universal joints and hydraulic lines (front)/engine and transmission (rear). It is hinged for easy cleaning and maintenance.

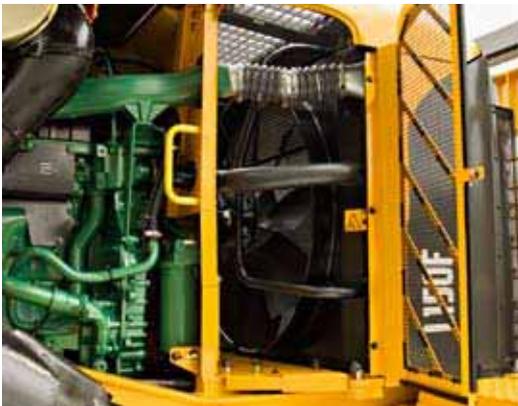
Belly guard, oil sump

Covers the area located between the rear axle and fuel tank, protecting the engine's oil sump and drain hoses.

External Axle Oil Cooling

Provides effective cooling of the axle oil and brakes in applications where heavy loads and constant braking are common.

Optional axle oil cooling provides maximized cooling capacity.



**Automatically activated
reversible cooling fan**

Timer controlled hydrostatic cooling fan automatically reverses the airflow to remove debris from the radiator/cooling cores and air intake screen for extended maintenance intervals.

FIT FOR EVERY TASK WITH VOLVO GENUINE ATTACHMENTS



Volvo offers a wide selection of genuine attachments for waste handling.

Volvo genuine attachments and wear parts are built to the same quality standard as our wheel loaders.

Refuse Bucket

Refuse Bucket is specifically designed for waste handling. With high strength steel and a spill guard optimized for maximum visibility, these buckets are made to move waste quickly, efficiently and safely.

Pick-up sweeper

Keep your work place clean and safe. Sweeper with waste container and water tank collects debris and reduces dust.

Hi-Tip Light Material Bucket

Hi-Tip Light Material Bucket features increased dump height over standard light material buckets because it is hydraulically lifted from a built-in frame. The Hi-Tip bucket has high capacity for low-density materials and is standard-equipped with steel bolt-on edge saver.

Refuse Tamping Buckets

Refuse Tamping Buckets, with extra long floor and heavy-duty design, are ideal in push floor operations for both pushing the material and packing (tamping) the material in containers. The optional clamp arm is a valuable tool in different types of handling, opened to push more material, closed to hold bulky material in the bucket and for limited sorting of material.

Bale clamp

For effective handling and recycling of waste paper bales and other bales without pallets. Strong, slender bale arms ensure secure grip and dense stacking.

WASTE HANDLING

Options to Boost your machine performance

	L60F	L70F	L90F	L110F	L120F	L150F	L180F	L220F
Caretrack, GSM	•	•	•	•	•	•	•	•
Caretrack, GSM/Satellite	•	•	•	•	•	•	•	•
Boom Suspension System, BSS	•	•	•	•	•	•	•	•
Comfort Drive Control, CDC	•	•	•	•	•	•	•	•
Comfort Drive Control, CDC, in combination with electro-hydraulic				•	•	•	•	•
Electro-hydraulic function, 3rd				•	•	•	•	•
Electro-hydraulic function, 3rd for long boom				•	•	•	•	•
Electro-hydraulic function, 3rd-4th				•	•	•	•	•
Electro-hydraulic function, 3rd-4th for long boom				•	•	•	•	•
Electro-hydraulic servo controls				•	•	•	•	•
Electro-hydraulic servo controls for long boom				•	•	•	•	•
Hydraulic function, 3rd	•	•	•	•	•	•	•	•
Hydraulic function, 3rd for long boom	•	•	•	•	•	•	•	•
Hydraulic function, 3rd-4th	•	•	•	•	•	•	•	•
Hydraulic function, 3rd-4th for long boom	•	•	•	•	•			
Hydraulic attachment bracket, welded						•	•	•
Hydraulic attachment bracket, cast	•	•	•	•	•			
Long boom	•	•	•	•	•	•	•	•
Long boom for electro-hydraulic				•	•	•	•	•

Options to make a great work place even safer

Asbestos dust protection filter	•	•	•	•	•	•	•	•
Cab air pre-cleaner, cyclone type	•	•	•	•	•	•	•	•
Cab ladders, 2 steps rubber-suspended	•	•	•	•	•	•	•	•
Rear-view camera system	•	•	•	•	•	•	•	•
Windshield guard, side and rear window guards, P 11	•	•	•	•	•	•	•	•

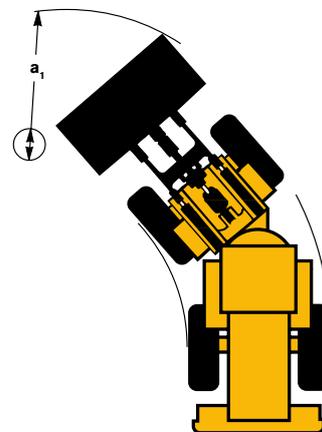
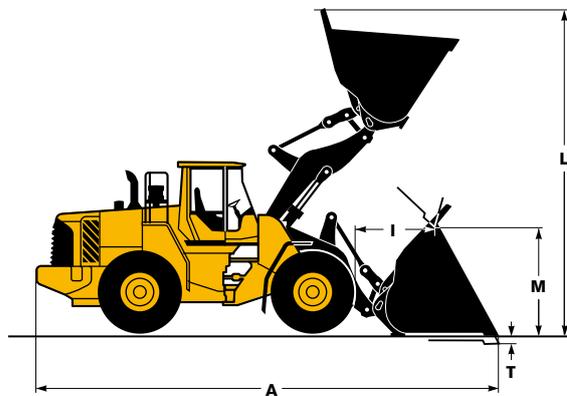
Options to protect your investment

Fan air intake protection, extra close-meshed	•	•	•	•	•	•	•	•
Air pre-cleaner, cyclone type	•	•	•	•	•	•	•	•
Air pre-cleaner, cyclone type, two-stage			•	•	•	•	•	•
Air pre-cleaner, turbo type	•	•	•	•	•	•	•	•
Battery boxes, steel	•	•	•	•	•			
Boom cylinder hose and tube guards	•	•	•	•	•	•	•	•
Boom cylinder hose and tube guards for long boom	•	•	•	•	•	•	•	•
Center hinge and rear frame guard	•	•	•	•	•			
Cover plate, heavy-duty, front frame	•	•	•	•	•	•	•	•
Cover plate, under cab	•	•	•	•	•	•	•	•
Cover plate, rear frame	•	•	•	•	•			
Grease tube guards		•	•	•	•	•	•	•
Headlights, front, guards	•	•	•	•	•	•	•	•
Radiator grille, guard	•	•	•	•	•	•	•	•
Relocated headlight assemblies				•	•	•	•	•
Steer cylinder guards						•	•	•
Taillight guards, heavy-duty	•	•	•	•	•	•	•	•
Wheel/axle seal guards	•	•	•	•	•	•	•	•
Belly guard, front	•	•	•	•	•	•	•	•
Belly guard, rear	•	•	•	•	•	•	•	•
Belly guard rear, oil pan						•	•	•
Deleted front mudguards						•	•	•
Deleted front mudguards and wideners rear	•	•	•	•	•			
Oil cooler and filter for front + rear axle				•	•	•	•	•
Reversible cooling fan	•	•	•	•	•	•	•	•
Reversible cooling fan and axle oil cooler				•	•	•	•	•

SPECIFICATIONS



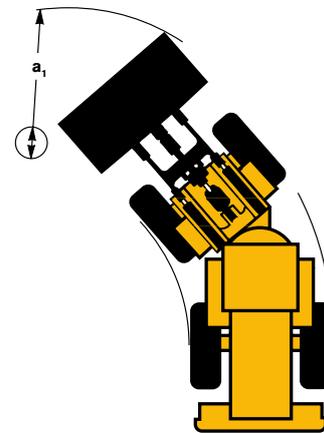
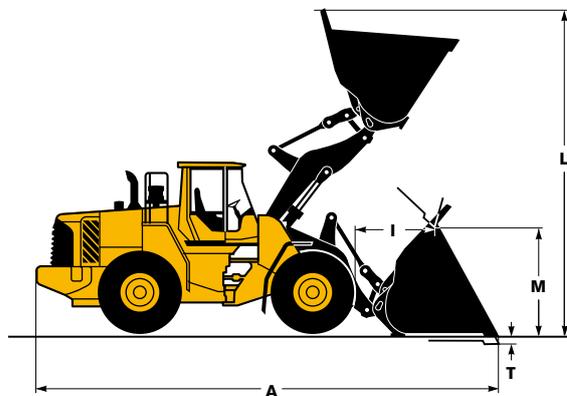
		Volvo L60F Pin-on STE/BOE		Volvo L70F Pin-on STE/BOE		Volvo L90F Pin-on STE/BOE		Volvo L110F Pin-on STE/BOE	
		Standard	Long Boom	Standard	Long Boom	Standard	Long Boom	Standard	Long Boom
Capacity, heaped ISO/SAE	m ³	3,1	3,1	4,1	4,1	4,1	4,1	5,5	5,5
	yd ³	(4.1)	(4.1)	(5.4)	(5.4)	(5.4)	(5.4)	(7.2)	(7.2)
Static tipping load	kg	8 690	6 910	9 310	7 450	12 110	10 230	13 710	11 020
	lb	(19 158)	(15 234)	(20 525)	(16 424)	(26 698)	(22 553)	(30 225)	(24 295)
Fully steered	kg	7 510	5 910	7 940	6 290	10 350	8 680	11 760	9 360
	lb	(16 557)	(13 029)	(17 505)	(13 867)	(22 818)	(19 136)	(25 926)	(20 635)
A Overall length	mm	7 530	8 060	7 820	8 280	7 860	8 280	8 370	8 890
	ft in	(24'8.5")	(26'5.3")	(25'7.9")	(27'2.0")	(25'9.4")	(27'2.0")	(27'5.5")	(29'2.0")
H Dump height at full lift and 45° discharge	mm	2 680	3 220	2 520	3 020	2 640	3 060	2 520	3 070
	ft in	(8'9.5")	(10'6.8")	(8'3.2")	(9'10.9")	(8'7.9")	(10'0.5")	(8'3.2")	(10'0.9")
L Overall height with bucket at full raise	mm	5 450	5 970	5 620	6 100	5 720	6 150	6 080	6 590
	ft in	(17'10.6")	(27'11.0")	(18'5.3")	(20'0.2")	(18'9.2")	(20'2.1")	(19'11.4")	(21'7.4")
M Reach at full lift and 45° discharge	mm	1 210	1 210	1 390	1 380	1 370	1 320	1 420	1 430
	ft in	(3'11.6")	(3'11.6")	(4'6.7")	(4'6.3")	(4'5.9")	(4'4.0")	(4'7.9")	(4'8.3")
T Digging depth	mm	61	98	94	101	71	75	52	61
	ft in	(0'2.4")	(0'3.9")	(0'3.7")	(0'4.0")	(0'2.8")	(0'3.0")	(0'2.0")	(0'2.4")
a1 Clearance circle	mm	11 780	12 240	12 080	12 480	12 130	12 450	12 990	13 430
	ft in	(38'7.8")	(40'1.9")	(39'7.6")	(40'11.3")	(39'9.6")	(40'10.2")	(42'7.4")	(44'0.7")
Machine weight	kg	13 085	13 245	15 145	15 385	16 600	16 840	20 130	20 440
	lb	(28 847)	(29 200)	(33 385)	(33 918)	(36 597)	(37 126)	(44 379)	(45 062)
Tires		20.5R25 L5		20.5R25 L5		20.5R25 L5		23.5R25 L5	
max. permissible machine weight	kg	14 000		16 500		19 000		23 000	
	lb	(30 865)		(36 376)		(41 888)		(50 706)	



Notes: Dimensions only apply to Volvo genuine attachments.



		Volvo L120F Pin-on STE/BOE		Volvo L150F Pin-on STE/BOE		Volvo L180F Pin-on STE/BOE		Volvo L220F Pin-on STE/BOE	
		Standard	Long Boom	Standard	Long Boom	Standard	Long Boom	Standard	Long Boom
Capacity, heaped ISO/SAE	m ³	5,5	5,5	6,8	6,8	7,8	7,8	9,5	9,5
	yd ³	(7.2)	(7.2)	(8.9)	(8.9)	(10.2)	(10.2)	(12.4)	(12.4)
Static tipping load	kg	14 810	12 080	18 570	14 950	21 790	17 960	24 200	21 310
	lb	(32 650)	(26 632)	(40 940)	(32 959)	(48 039)	(39 595)	(53 352)	(46 980)
Fully steered	kg	12 630	10 210	16 310	13 030	19 030	15 570	21 170	18 540
	lb	(27 844)	(22 509)	(35 957)	(28 726)	(41 954)	(34 362)	(46 672)	(40 874)
A Overall length	mm	8 470	8 980	9 100	9 620	9 300	9 780	9 650	9 970
	ft in	(29'9.5")	(46'1.5")	(29'10.3")	(31'6.7")	(30'6.1")	(32'1.0")	(31'7.9")	(32'8.5")
H Dump height at full lift and 45° discharge	mm	2 580	3 100	2 650	3 230	2 730	3 230	2 870	3 240
	ft in	(8'5.6")	(10'2.0")	(8'8.3")	(10'7.2")	(8'11.5")	(10'7.2")	(9'5.0")	(10'7.6")
L Overall height with bucket at full raise	mm	6 150	6 660	6 410	6 980	6 630	7 120	7 120	7 480
	ft in	(20'2.1")	(21'10.2")	(21'0")	(22'10.8")	(21'9.0")	(23'4.3")	(23'4.3")	(24'6.5")
M Reach at full lift and 45° discharge	mm	1 460	1 430	1 520	1 500	1 580	1 610	1 640	1 620
	ft in	(4'9.5")	(4'8.3")	(4'11.8")	(4'11.1")	(5'2.2")	(5'3.4")	(5'4.6")	(5'3.8")
T Digging depth	mm	57	104	49	103	92	174	80	85
	ft in	(0'2.2")	(0'4.1")	(0'1.9")	(0'4.1")	(0'3.6")	(0'6.9")	(0'3.1")	(0'3.3")
a1 Clearance circle	mm	13 050	13 490	14 890	15 240	15 220	15 520	16 070	16 310
	ft in	(42'9.8")	(44'3.1")	(48'10.2")	(50'0.0")	(49'11.2")	(50'11.0")	(52'8.7")	(53'6.1")
Machine weight	kg	20 900	21 100	25 760	26 060	28 950	29 230	34 100	34 480
	lb	(46 077)	(46 517)	(56 710)	(57 452)	(63 824)	(64 441)	(75 178)	(76 015)
Tires		23.5R25 L5		26.5R25 L5		26.5R25 L5		29.5R25 L5	
max. permissible machine weight	kg	24 000		28 000		31 000		37 000	
	lb	(52 911)		(61 729)		(68 343)		(81 570)	



Notes: Dimensions only apply to Volvo genuine attachments.



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 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.**



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.

VOLVO

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