

# **VOLVO WHEEL LOADERS**

**L50C, L70C, L90C, L120C, L150C, L180C,  
L330C, L180C HIGH-LIFT**



**VOLVO**



# Volvo Construction Equipment – 100 Percent Volvo



The Volvo Group had sales revenues of SEK 156 billion (about USD 25 billion) in 1996, providing ample resources for

research, development and Customer Support.

Volvo Construction Equipment represents all the key values that have made Volvo one of the world's best-known brand names.

#### **Volvo equals quality**

Volvo's excellent reputation is a result of the fact that every com-

ponent in every product we offer is of the same high quality.

Very early on we realized, for example, the importance of developing our own engines, transmissions and axles for complete and fully harmonized drivetrains. The drivetrain is one of the keys to high productivity, availability and total economy.

#### **Volvo stands for safety**

Volvo has long been known for safety and is the industry leader in safety development.

Volvo has always put the human being first, and our research in the field of the operator environment leads to continual product development.

#### **Volvo protects the environment**

Our high-performance low-emissions engines, recyclable components, CFC-free climate control systems, water-based paints and biodegradable hydraulic oils demonstrate that increased productivity can go hand-in-hand with environmental responsibility.

Our goal is an optimum interaction between mankind, machine and the environment.

# You earn more with a Volvo



## More tonnes per hour

Your Volvo helps you to do more work per day than you have ever done before.



## More days per year

You get more days per year out of your Volvo wheel loader. An idle machine costs money every hour it is idle.



## Higher operator efficiency

You can work more efficiently, with better results, in a wheel loader from Volvo.



## Lower operating costs

Your Volvo wheel loader works longer and more efficiently for less money.

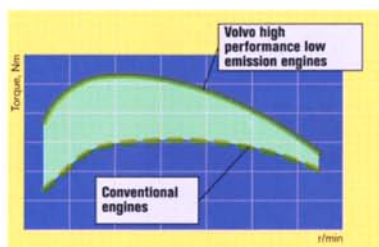




# More tonnes per hour

The key is a full bucket and fast work cycles

The productivity of Volvo wheel loaders is one of your guarantees that owning a Volvo is more profitable. The drivetrain consists of Volvo-developed components working in perfect harmony to put more power at your disposal. With Automatic Power Shift II you can channel the engine's power by choosing the shifting points according to the type of work at hand.



Up to 30 percent higher torque at low engine speeds

**Speed saves time and money**  
All Volvo wheel loaders are equipped with high-performance low-emission engines with up to 30 percent higher torque at low engine speeds than conventional engines. This gives our wheel loaders extra rimpull, better penetration capacity and faster acceleration, resulting in shorter cycle times. With its low-rev performance, the engine responds immediately to the operator's commands.

- **Volvo-developed Drivetrain**
- **Automatic Power Shift II**
- **Load Sensing Steering System**
- **TP Linkage**
- **Load Sensing Hydraulics**
- **Boom Suspension System**
- **Genuine Attachments**

**Volvo's hydraulics lift your revenues**

The *Volvo Open Center hydraulic system* in the L90C, L120C, L150C and L180C incorporates efficient vane pumps. The pumps supply the hydraulic system with oil and don't use more engine power than necessary.

The hydraulic system is optimally matched to the engine, torque converter and the rest of the drivetrain, resulting in faster work cycles and higher productivity.

*Load Sensing Hydraulics give fast attachment movements*

The L50C, L70C and L330C have an intelligent load-sensing hydraulic system that provides fast attachment movements at low engine speeds. The energy-

*TP Linkage has superior breakout torque throughout the lifting range.*



efficient system distributes the engine's power optimally between hydraulics and propulsion by only pumping oil when the hydraulics are used.

*Fast, precise steering with Load Sensing Steering System*

All wheel loaders in the C- generation are equipped with a load-sensing hydrostatic steering system with variable pumps that give you simple and convenient steering even at low engine speeds.

To ensure the prioritization of power, the pumps interrupt the oil flow as soon as the driver stops using the steering system.

**Volvo TP Linkage provides strength and control**

Volvo's patented TP Linkage lift-







arm system has superior breakout torque throughout the lifting range, combined with nearly exact parallel lift-arm action.

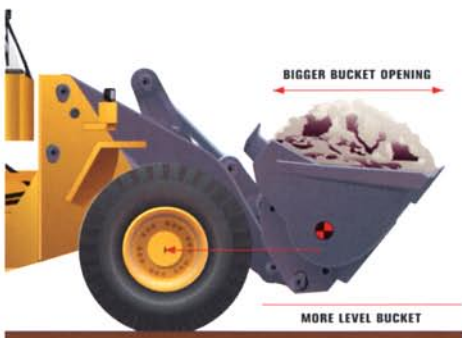
TP Linkage retains its strength through the lifting range and

gives you full control over attachment and load.

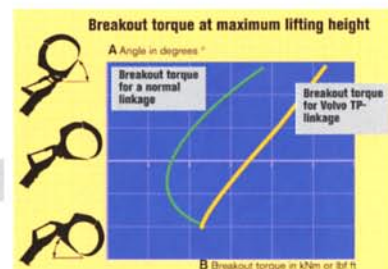
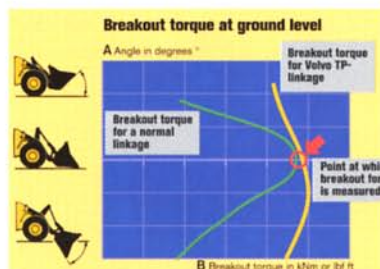
**Larger heap without spillage**

The short distance between the centre of gravity of the load and

the front axle increases stability. In the carry position, the bucket can be angled backward so that the opening is virtually parallel to the ground. This means less spillage. And because the bucket



Fast work cycles require maximum stability. This is achieved with Volvo's TP Linkage, which holds attachment and load in an iron grip.



An ordinary linkage has maximum strength with the bucket level at ground level, where the breakout force is normally measured. Volvo TP Linkage is equally strong throughout the lifting range.

# More days per year

Customer Support and service-friendliness give you more machine time

*Continued from previous page*  
opening is larger the heaped capacity is greater.

A genuine Volvo bucket gives you at least ten percent higher productivity  
To achieve the highest productivity, you need attachments that are optimized to the task and to the wheel loader's performance. Volvo's attachment bracket gives you access to the world's widest range of attachments.

- **Service-friendliness**
- **Contronic**
- **Genuine Spare Parts**
- **Customer Support**

Volvo Construction Equipment's *Customer Support* and the machines' service-friendliness make it possible for your machine to achieve the highest possible productivity.

Wheel loaders work under different conditions, so we devise a customized preventive maintenance programme to suit your



work and your operating conditions. Together with the use of genuine Volvo parts and our system for replacement components,

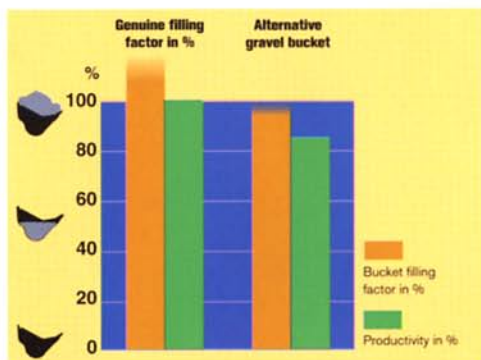
this guarantees you maximum availability and a machine that is always in top condition.

Volvo wheel loaders lead the field when it comes to solutions for simple check-ups and inspections – service-friendliness is built in from the start.

The operator, who plays a key role in overseeing the care of the machine, gets ample information at delivery, including an instruction video.



**Contronic makes accurate diagnoses of the wheel loader's status**  
Contronic is an electronic monitoring system that constantly monitors all of the machine's main functions. It is connected to the central warning system, which immediately informs the operator of any problems. The information is displayed in plain text on the instrument panel, and information on faults is accentuated by a



Genuine Volvo attachments are the only ones that will do your loader full justice when it comes to working fast and efficiently.

Capacity tests have shown that our buckets enable you to achieve at least ten percent higher productivity. A genuine attachment can make the difference between whether a contracting job is profitable or not.

## Boom Suspension System boosts productivity

The Boom Suspension System reduces spillage in work on both smooth and uneven surfaces. This means that the wheel loader can work both faster and more safely, boosting productivity.

*Contronic provides service reminders and helps our service personnel identify any faults.*







flashing warning light.

The system also reminds the operator of periodic service eight hours in advance and makes quick, accurate diagnoses of problems. That helps you minimize the time your wheel loader stands idle.

The data stored in Contronic is a vital source of information for our service personnel, helping them to identify and correct any faults without delay.

**5,000 service technicians are trained annually**

We train one service technician every other hour, round the clock, in our global network of service schools. We can reach you with service and support wherever you are.

All of Volvo's markets have such a high degree of service



readiness that they are able to cover every service need with capacity to spare. If your wheel loader is in need of parts, Volvo Construction Equipment can supply genuine Volvo parts so that you can utilize the machine's capacity to the fullest.



*We can reach you with service and parts no matter where you are in the world.*



# Higher operator efficiency

The operator is the most important productivity factor

The Volvo brand name has long been closely associated with safety, ergonomic solutions and comfort. Volvo's prize-winning Care Cab lives up to all the demands that can be made on a highly efficient work station, and has been tested and approved in accordance with ROPS/FOPS standards.

## Equipped for success

The cab is vibration-isolated and sound-insulated by the ingenious



*The large glazed areas offer the market's best all-round visibility.*

rubber mounting system and heavy insulation. The heating and ventilation system supplies tempered and filtered fresh air from fourteen adjustable air outlets.

## Look around

The Volvo Care Cab offers the market's best all-round visibility. The large, curved windscreen without corner posts and the large glazed areas all around give the operator an excellent view over the attachment and the surroundings.

## Take a seat

You can choose between a number of different operator's seats, which are easy to adjust to a comfortable working position

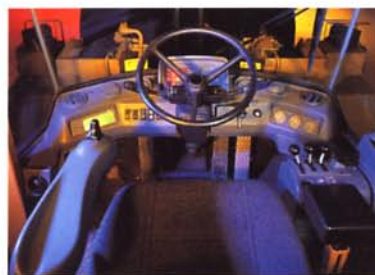


- **Care Cab**
- **Automatic Power Shift II**
- **Comfort Drive Control**
- **Boom Suspension System**

regardless of your height. The seats have lumbar support and are adjustable fore-and-aft and up-and-down. The angle of both the seat cushion and the backrest can be adjusted. The seats also have effective shock absorption and the seat suspension can be adjusted according to the operator's weight.

## Lean back and let your fingers do the work

The pilot-operated working hy-



*Pilot-operated working hydraulics and Comfort Drive Control help the operator work more efficiently with small, light finger movements.*

draulics enable the operator to work with small, light movements and precision-control the attachments with the fingertips of his right hand while his arm rests on the adjustable armrest.

The ergonomic design of the operator's seat and the controls



give the operator the right working position, easing the strain on his neck, back, arms and knees.

## APS II lets the operator concentrate on the important work at hand

Automatic Power Shift II is Volvo's tried-and-tested automatic gear-shifting system. It lets the operator set the shifting points himself and control gear-changing according to the intensity of the work and the prevailing operating conditions. When APS II does the shifting, the operator can concentrate on the important work at hand.

## No unnecessary muscle tension with Comfort Drive Control

Intensive work exposes the operator to the risk of static muscle strain.





CDC lets the operator work relaxed, with his left hand resting on the ergonomically designed armrest, the steering lever in the grip of his thumb and the switches for forward/reverse and kick-down within easy reach of his fingertips.

The solution is Comfort Drive Control, which enables the operator to steer and shift – quickly and precisely – with small, light movements of the hands and fingers. The operator can work relaxed, with his left hand resting on the ergonomically designed armrest, the steering lever in the grip of his thumb and the switches for

forward/reverse and kick-down within easy reach of his fingertips. Studies by independent experts show that CDC cuts the load on shoulders, back and arms in half while reducing the risk of static muscle strain.

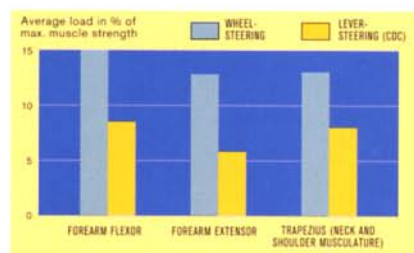
#### Boom Suspension System takes up the shakes

Our Boom Suspension System absorbs the shaking and swaying

movements of the boom so you can sit more steadily and operate the machine faster and surer in load-carry work.

#### Axles with wet, circulation-cooled disc brakes

The C generation's axle shafts are fully-floating and equipped with circulation-cooled, wet disc brakes for smooth and effective braking. The brakes are enclosed and completely protected.



EMG examinations performed on operators by Bygghälsan's (the Swedish Construction Industry's Organization for Working Environment, Safety and Health) research foundation show that CDC reduces the average load on the muscles in the forearm and shoulder by half, reducing the risk of muscle injuries.



# Lower operating costs

## Power at low engine speeds gives lower fuel consumption

The most expensive item when it comes to running costs is fuel. Volvo's high-performance low-emission engines, Volvo-developed drivetrains and efficient hydraulics enable you to get about ten percent more power from your fuel.

Volvo is at the top of the league when it comes to squeezing the most power out of every drop of fuel.

### Power at low engine speeds is what's important

Volvo's high-performance low-emission engines have up to 30 percent higher torque than conventional engines at low rpms. All Volvo's wheel loaders therefore have excellent low-rev performance. The strength of our machines at low rpms enables them to work at a lower engine power, reducing the stress on the engines and reducing fuel consumption substantially.

### Horsepower gets to where its needed

Our drivetrains, from engine to axles, are made up of Volvo-developed components, ensuring that every horsepower generated in the engine reaches its destination with minimal losses. This means lower fuel consumption and higher capacity.

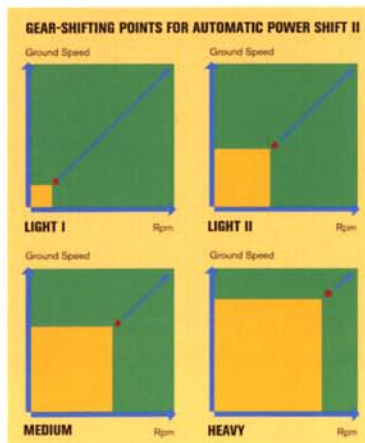
### Even less fuel

Automatic Power Shift II allows the machine operator to set the shifting points himself and control the upshifting sequence according to the prevailing operating conditions, the nature of the work and the work cycle.

On the mode selector it is possible to choose between *Manual*, *Heavy Duty*, *Medium* and two *Light* positions, depending on the work to be done.

If the operator selects a *Light* position and presses hard on the gas pedal, APS II gives him the

- **High-Performance Low-Emission Engines**
- **Automatic Power Shift II**
- **Hydraulic system**
- **Contronic**
- **Few Service Hours**



■ SHIFTING RANGE  
■ NON-SHIFTING RANGE

*APS II shifts gear with reference to both ground speed and engine speed. If the operator is in the Light position and wants a quick temporarily, all he has to do is step hard on the gas. APS II can then temporarily give the same effect as in the Heavy Duty position.*

same power as in the Heavy Duty position. This makes it possible to get a quick response temporarily in the Light position as well, providing unsurpassed high ground speed at low rpms.

*Long service intervals and few service hours reduce maintenance costs.*



APS II, which is dependent on both engine speed and ground speed, guarantees that the machine always works in the most effective and fuel-efficient gear, thereby reducing fuel consumption.







**Quick action and high precision of hydraulics guarantee good fuel economy**

The load-sensing hydraulic system and the load-sensing hydrostatic steering system both act to reduce fuel consumption.

The pumps only supply the hydraulic system with oil when the task demands it. This reduces overall fuel consumption.

**Long service intervals and few service hours reduce maintenance costs**

Few hours of routine maintenance with long intervals in between mean lower service costs. We have designed the wheel loaders from the start with ease of service in mind. The service points are easily accessible. Large access doors

with gas struts and a hinged radiator facilitate the service work and help it go speedily and efficiently.

**Contronic monitors and informs**

The Contronic monitoring system reduces the costs of service and maintenance and minimizes unplanned stoppages.

**Clean exhaust gases**

The high-performance-low emission engines meet all environmental requirements up to the year 2001 with ample margin. This is a result of even more powerful injection pumps and nozzles with more and smaller holes, providing a high injection pressure. This atomizes the fuel, resulting in efficient combustion with very low emissions of particulates, hydrocarbons and carbon monoxide.

Volvo Twin Pump Intercooling lowers the charge air temperature and thereby the combustion temperature. This, together with delayed injection, provides a low combustion pressure, which reduces nitrogen oxide emissions.





# Power and weight carry the day in the heaviest jobs

## L330C



The world's toughest working environments make the world's toughest demands on productivity, availability and operating economy.

The Volvo L330C lives up to these demands.

The Volvo L330C is already an established wheel loader, based on solid know-how and experience from the industry. It is built to work in triple shifts, year in and year out, in the toughest working environments of all.

**Quarries, mines and hard banks**  
The Volvo L330C has the weight,

the sturdiness and the breakout force required for primary loading of 65-tonne haulers in quarries, mines and hard banks.

The weight of the machine, combined with the extra rimpull provided by the well-matched drivetrain, gives the L330C plenty of the penetration capacity needed on the world's toughest worksites.

**Higher power for lower fuel costs**  
The L330C is equipped with Volvo's successful six-cylinder TD 164 turbodiesel engine. Equipped with intercooling, the engine offers very high torque at low rpms, developing a maximum output of 366 kW/498 hp.

The Volvo TD 164 meets all known environmental require-

• AUTOMATIC POWER SHIFT II • CARE CAB • HIGH-PERFORMANCE L







ments, and, in combination with the load-sensing hydraulics, gives the L330C unbeatable fuel economy in its weight class.

**Rugged axles for long and faithful service**

The front and rear axles on the L330C are designed for maximum reliability throughout a long life-

time. All mounting bolts and axle shafts are enclosed and well protected. The oscillating rear axle keeps all four wheels in good contact with the ground, even during work on uneven surfaces. The machine's tractive characteristics are further enhanced by the limited-slip differential, which automatically distributes the tractive force to the wheels for optimal traction under difficult conditions.

The fully enclosed, wet, circulation-cooled multi-disc brakes on all four wheels guarantee perfect braking characteristics.

**Double Z-Bar Linkage maximizes productivity**

The double Z-bar linkage is quick and efficient, providing the high breakout force you need for intensive loading work in quarries and mines.

Automatic bucket positioner and boom kickout enable you to set predetermined positions so that the correct dump height and optimum bucket angle for the digging position can be obtained for the job at hand.

**Long Boom increases lift height and saves tyres**

The increased lift height provided by the Long Boom option facilitates the loading of high vehicles. The extended reach also means that the L330C doesn't have to

work close to the face operating in quarries, saving wear on the tyres.



*Fully enclosed, wet, circulation-cooled multi-disc brakes on all four wheels provide excellent braking characteristics.*

**VOLVO L330C**

<b>Engine</b>	<b>TD 164 KAE</b>
<b>Output, at r/s (r/min)</b>	<b>30,0 (1 800)</b>
SAE J1349 gross, kW (hp)	370 (503)
net, kW (hp)	366 (498)
<b>Max torque, at r/s (r/min)</b>	<b>16,7 (1 000)</b>
SAE J1349 gross, Nm	2 370
net, Nm	2 330
<b>Max. speed, km/h</b>	<b>34,2</b>
<b>Tipping load:</b>	
straight, kg	36 050
full turn, ±35°	31 830
<b>Breakout force: kN</b>	<b>499,7</b>
with bucket, m <sup>3</sup>	6,6
<b>Bucket sizes, m<sup>3</sup></b>	<b>6,1–12,7</b>
<b>Operating weight, t</b>	<b>46,9–51,4</b>
<b>Long Boom (option), mm</b>	<b>380</b>

Certain machine-specific deviations can occur. See data sheets.

**LOW-EMISSION ENGINE • CONTRONIC • LOAD SENSING HYDRAULICS •**





# Massive strength for rock, gravel and timber



## L180C

The Volvo L150C and L180C production loaders have the weight required for rock, gravel and timber handling.

Their strength is the result of a well-matched drivetrain, composed of robust Volvo-made components.

The Volvo L150C and L180C are fast, highly productive machines that are at their most profitable in working situations that make high demands on strength, speed and sturdiness.

Primary loading and stockpile loading  
The Volvo L150C and L180C can be

VOLVO	L180C	HIGH-LIFT
Engine	TD 122 KHE	TD 122 KHE
Output, at r/s (r/min)	35,0 (2 100)	35,0 (2 100)
	SAE J1349 gross, kW (hp)	209 (284)
209 (284)		
net, kW (hp)	198 (269)	198 (269)
Max. torque, r/s (r/min)	15,0 (900)	15,0 (900)
SAE J1349 gross, Nm	1 580	1 580
net, Nm	1 570	
Max. speed, km/h	35,1	35
Tipping load:		
straight, kg	20 460	
full turn, ±37°	17 850	
Breakout force, kN	211,8	
with bucket, m <sup>2</sup>	4,4	
Bucket sizes	4,2–14,0 m <sup>2</sup>	3,2–3,8 m <sup>2</sup>
Operating weight, t	24,9–28,2	30,5

Certain machine-specific deviations can occur. See data sheets.

• AUTOMATIC POWER SHIFT II • TP LINKAGE • CARE CAB •



*Volvo L180C High-Lift reaches 5.5 metres*  
This permits more rational turnover of the lumber stock, shorter cycle times and higher productivity. By utilizing the High-Lift's maximum lift height in stacking it is possible to make 30–40 percent more efficient use of the stockpile.





# L150C

used both as primary loaders and stockpile loaders. The strength provided by their six-cylinder, high-performance, low-emission engines and well-matched drivetrains comes in very handy in primary loading in hard banks, quarries and mines. Their speed is of great importance in stockpile loading.

TP Linkage gives both the L150C and the L180C high breakout force, making them eminently suited for work in the forest industry. The L180C is available in a High-Lift version, which greatly increases efficiency in log and lumber handling.

The Volvo L180C Compactor is making important contributions on landfill sites all over the world.

Now even higher with Long Boom By equipping the Volvo L150C and L180C with Long Boom, their lift height can be improved by 500 millimetres. This facilitates loading of haulers and trucks and broadens the range of application of your wheel loader.

Two models for many worksites The Volvo L150C and L180C can also be found on road construction sites and other types of civil engineering sites. The heavy manufacturing industry also has jobs well-suited to the strength, speed and sturdiness of these machines.

## VOLVO L150C

<b>Engine</b>	<b>TD 103 KCE</b>
<b>Output at, r/s (r/min)</b>	<b>35,0 (2 100)</b>
<b>SAE J1349 gross, kW (hp)</b>	<b>189 (257)</b>
<b>net, kW (hp)</b>	<b>180 (245)</b>
<b>Max. torque at, r/s (r/min)</b>	<b>18,3 (1 100)</b>
<b>SAE J1349 gross, Nm</b>	<b>1 390</b>
<b>net, Nm</b>	<b>1 380</b>
<b>Max. speed, km/h</b>	<b>33,9</b>
<b>Tipping load:</b>	
<b>straight, kg</b>	<b>16 920</b>
<b>full turn, ±37°</b>	<b>14 870</b>
<b>Breakout force: kN</b>	<b>193,1</b>
<b>with bucket, m<sup>2</sup></b>	<b>3,5</b>
<b>Bucket sizes, m<sup>2</sup></b>	<b>3,5–12,0</b>
<b>Operating weight, t</b>	<b>21,9–25,8</b>
<b>Long Boom (option), mm</b>	<b>570</b>

Certain machine-specific deviations can occur. See data sheets.

CONTRONIC • HIGH-PERFORMANCE LOW-EMISSION ENGINES •





# Bigger, stronger, faster and more profitable

## L120C



### TP Linkage is the hallmark of the Volvo L90C and L120C wheel loaders.

But the strength is hidden below the surface, where Volvo's high-performance low-emission engines develop 30 percent more torque at low engine speeds. The engines meet all environmental requirements up to the year 2000 with ample margin.

Together with the new transmissions, designed for heavier work duties, and new axles with wet, circulation-cooled multi-disc brakes, they form a strong unit that is ideally matched to the hydraulic and lift-arm systems.

The L90C and L120C are particularly well suited for primary and stockpile loading of gravel. Their speed and high capacity enable them to move large quantities of material in a short time.

#### Heavier-duty transmissions

To handle new and heavier work duties, the Volvo L90C is equipped with the tried-and-tested HT131 transmission. The Volvo L120 has the more rugged HT205, the same as in the Volvo L150C.

#### VOLVO L120C

<b>Engine</b>	<b>TD 73 KDE</b>
<b>Output at, r/s (r/min)</b>	<b>35,0 (2 100)</b>
<b>SAE J1349 gross, kW (hp)</b>	<b>153 (208)</b>
<b>net, kW (hp)</b>	<b>148 (201)</b>
<b>Max. torque at, r/s (r/min)</b>	<b>18,3 r/s (1 100)</b>
<b>SAE J1349 gross, Nm</b>	<b>925</b>
<b>net, Nm</b>	<b>920</b>
<b>Max. speed, km/h</b>	<b>35,5</b>
<b>Tipping load:</b>	
<b>straight, kg</b>	<b>14 030</b>
<b>full turn, ±40</b>	<b>11 910</b>
<b>Breakout force: kN</b>	<b>161,6</b>
<b>with bucket, m<sup>3</sup></b>	<b>3,0</b>
<b>Bucket sizes, m<sup>3</sup></b>	<b>3,0-9,5</b>
<b>Operating weight, t</b>	<b>18,0-20,2</b>
<b>Long Boom (option), mm</b>	<b>518</b>

Certain machine-specific deviations can occur. See data sheets.

• AUTOMATIC POWER SHIFT II • TP LINKAGE • CARE CAB •





# L90C



## Long Boom improves reach and lift height

The optional Long Boom is available for the L120C, improving the machine's reach by 500 millimetres.

## Strength and speed provide versatility

The high-performance engines deliver more rimpull, which increases penetration capacity when loading in a hard bank. The high torque at low rpms provides faster acceleration and shorter cycle times in stockpile loading.

With access to Volvo's world-leading range of genuine attachments, the engines can be used

for an array of applications in industrial materials handling and for all kinds of civil engineering jobs.

Their strength throughout the lifting range and the many special attachments that are available give our wheel loaders a leading position within timber handling.

The size, strength and speed of the machines are your guarantees for sustainable profitability.

### VOLVO L90C

<b>Engine</b>	<b>TD 63 KBE</b>
<b>Output at, r/s (r/min)</b>	<b>35,0 (2 100)</b>
<b>SAE J1349 gross, kW (hp)</b>	<b>118 (160)</b>
<b>net, kW (hp)</b>	<b>113 (153)</b>
<b>Max. torque at, r/s (r/min)</b>	<b>18,3 r/s (1 100)</b>
<b>SAE J1349 gross, Nm</b>	<b>695</b>
<b>net, Nm</b>	<b>690</b>
<b>Max. speed, km/h</b>	<b>38,2</b>
<b>Tipping load:</b>	
<b>straight, kg</b>	<b>10 800</b>
<b>full turn, ±40</b>	<b>9 240</b>
<b>Breakout force: kN</b>	<b>127,6</b>
<b>with bucket, m<sup>3</sup></b>	<b>2,2</b>
<b>Bucket sizes, m<sup>3</sup></b>	<b>2,2-7,0</b>
<b>Operating weight, t</b>	<b>14,4-16,1</b>

Certain machine-specific deviations can occur. See data sheets.

CONTRONIC • HIGH - PERFORMANCE LOW - EMISSION ENGINES •





# Flexibility and variation ensure broad utilisation

## L70C



With their strength, speed and agility, the Volvo L50C and L70C wheel loaders enjoy an impressive lead in their weight classes.

Add to this the world's largest family of attachments – Genuine Volvo Attachments – and it becomes clear that the Volvo L50C and L70C are the market's most useful and efficient bucket and multipurpose loaders in their respective size classes.

The strongest arguments for the L50C and L70C are their flexibility and versatility. No other wheel loaders use more attachments for their normal work duties than the L50C and L70C.

**Balanced drivetrain of robust components**

In the Volvo L70C, the power is transmitted from the strong six-cylinder Volvo turbodiesel engine to the Volvo-made AWB axles via a Volvo transmission with APS II.

In the Volvo L50C, a continuously variable hydrostatic transmission transmits the power. In both machines, the engine, transmission and axles comprise a harmonious unit,

### VOLVO L70C

<b>Engine</b>	<b>TD 63 KDE</b>
<b>Output at, r/s (r/min)</b>	<b>35,0 (2 100)</b>
<b>SAE J1349 gross, kW (hp)</b>	<b>96 (130)</b>
<b>net, kW (hp)</b>	<b>90 (122)</b>
<b>Max. torque, at r/s (r/min)</b>	<b>18,3 (1 100)</b>
<b>SAE J1349 gross, Nm</b>	<b>615</b>
<b>net, Nm</b>	<b>610</b>
<b>Max. speed, km/h</b>	<b>44,0</b>
<b>Tipping load:</b>	
<b>straight, kg</b>	<b>8 260</b>
<b>full turn, ±40</b>	<b>7 130</b>
<b>Breakout force: kN</b>	<b>99,1</b>
<b>with bucket, m<sup>2</sup></b>	<b>1,6</b>
<b>Bucket sizes, m<sup>3</sup></b>	<b>1,8–5,0</b>
<b>Operating weight, t</b>	<b>10,5–11,8</b>

Certain machine-specific deviations can occur. See data sheets.

• T P L I N K A G E • H I G H - P E R F O R M A N C E L O W - E M I S S I O N





# L50C



well-matched to the hydraulic system and loader unit, guaranteeing a high return on investment throughout a long machine life.

### Flexibility and variation mean profitability

Due to their strength, speed and agility, the L50C and L70C can be used in a wide array of applications in the most diverse environments. They can be found hard at work in materials handling at goods terminals, in material yards and in the processing and engineering industries. They load and unload goods in harbours and move timber and saw-

dust at sawmills and pulp mills. Within the construction industry they are a common sight on road building and civil engineering sites as well as on large building construction sites.

The versatility of the L50C and L70C make them indispensable to their owners.

### VOLVO L50C

<b>Engine</b>	<b>TD 40 KAE</b>
<b>Output, at r/s (r/min)</b>	<b>36,7 (2 200)</b>
<b>SAE J1349 gross, kW (hp)</b>	<b>74,5 (101)</b>
<b>net, kW (hp)</b>	<b>71,0 (97)</b>
<b>Max. torque, at r/s (r/min)</b>	<b>23,3 (1 400)</b>
<b>SAE J1349 gross, Nm</b>	<b>390</b>
<b>net, Nm</b>	<b>380</b>
<b>Max. speed, km/h</b>	<b>40</b>
<b>Tipping load:</b>	
<b>straight, kg</b>	<b>5 650</b>
<b>full turn, ±40</b>	<b>4 890</b>
<b>Breakout force: kN</b>	<b>72,1</b>
<b>with bucket, m<sup>3</sup></b>	<b>1,2</b>
<b>Bucket sizes, m<sup>3</sup></b>	<b>1,2–3,9</b>
<b>Operating weight, t</b>	<b>7,8–9,0</b>

Certain machine-specific deviations can occur. See data sheets.

ENGINES • CARE CAB • LOAD SENSING HYDRAULICS •





# Technology on human terms



When you choose products from Volvo Construction Equipment, you get not only high productivity and availability, but also the safety and continuity for which the name Volvo stands. The machines are built with consideration for both mankind and the environment, and the width of the product range gives you every opportunity to choose the most efficient machine combinations. The safety lies not only in Volvo's service and parts organization, but also in the company's research and product development, which ensures you continuous access to cutting-edge technology. This in turn ensures that your machine will achieve the highest standards of performance in demanding jobs for a long time to come.

*Volvo Construction Equipment includes the brands Volvo, Euclid, Zettelmeyer, Pel-Job, Mecalac and Champion.*

## **VOLVO**

**Volvo Construction Equipment Group**

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