

# **VOLVO WHEEL LOADERS**



**VOLVO**

# The serious loader



The overall concept of the Volvo wheel loaders can be expressed in two words; efficiency and endurance. The efficient production loaders are able to tackle tough tasks within rock, gravel and timber handling. The ready-and-able service loaders can switch jobs quickly thanks to the large family of genuine Volvo attachments.



## More tons per hour

The productivity of Volvo wheel loaders is one of your guarantees that owning a Volvo is more profitable. The load sensitive steering system in combination with a bucket capable of being angled virtually parallel to the ground ensures an effective loading process with precision and high loading capacity. These advantages in combination with the Automatic Power Shift II gives the operator a high level of control.

## More days per year

Volvo Construction Equipment's Customer Support and the machine's service-friendliness makes it possible for your machine to achieve the highest possible productivity. A customized maintenance program is designed to suit your work and operation conditions. Together with the use of genuine Volvo parts this guarantees you maximum availability and a machine that is always in top condition. 5,000 annually trained service technicians makes us able to help you out wherever whenever you need us to.

## Higher operator efficiency

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.

## Lower operating costs

The most important item when it comes to running costs is fuel. But the high performance low-emission engines, the Automatic Power Shift II and the load-sensing hydraulic system are a few of the Volvo wheel loader features that contribute significantly to reduce fuel consumption. The Contronic monitoring system keeps the operator updated on the status of the wheel loader.

## Volvo protects the environment

Our high-performance low-emissions engines, recyclable components, CFS-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.

# Ergonomics and operator-friendliness

## The operator is the wheel loader's most important productivity factor

From floor to ceiling, the Volvo Care Cab is a workplace with well thought-through ergonomic design to raise operator productivity, comfort and safety. With superb visibility, APSII, pilot operated working hydraulics and Comfort Drive Control (optional), it is possible to precisely manoeuvre the production loader with the minimum of effort for each work cycle. The operator environment in the Volvo Care Cab plus superb visibility helps you to maintain speed and precision throughout the work shift.

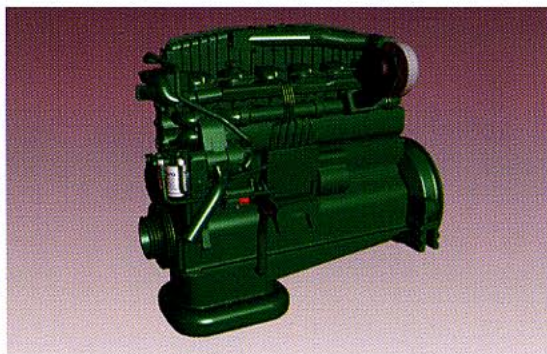
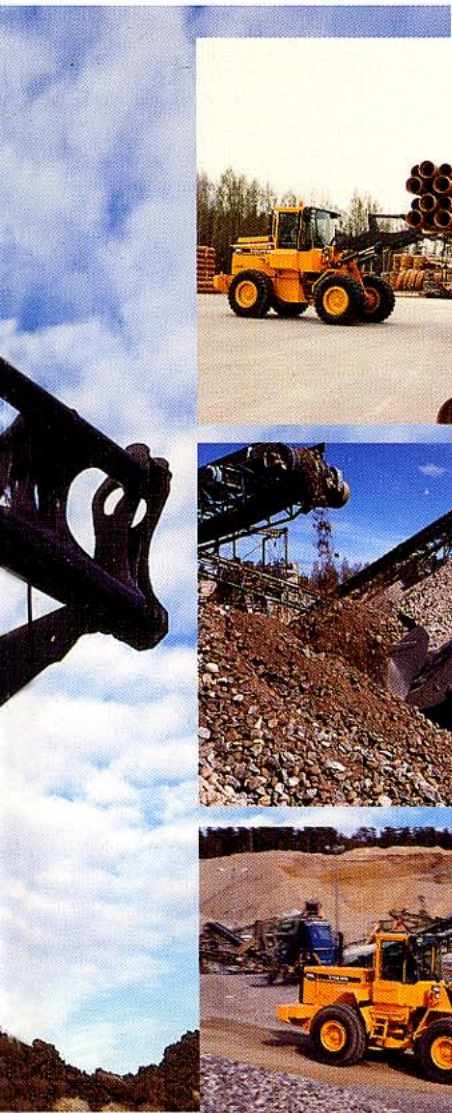
## Contronic monitoring system reduces maintenance costs

Contronic keeps the operator constantly informed on the condition of the machine, for example the temperature in the engine and transmission. A plain-text display reminds of recurrent service and maintenance, reducing the risk of unplanned service stoppages and extending the life of the machine. Contronic simplifies service and contributes actively to lowering maintenance costs.

## Good visibility and all-round versatility in materials handling

Materials handling operations at goods terminals, construction sites, industrial plants and in similar applications require an excellent overview of the surrounding activities and the materials being handled. There is no room for compromise regarding safety even though speed is vital.





## 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.

## Load Sensing Hydraulics give fast attachment movements

The L50C, L70C, L220D and L330C have an intelligent load-sensing hydraulic system that provides fast attachment movements at low engine speeds. The energy-efficient system distributes the engine's power optimally between hydraulics and propulsion by only pumping oil when the hydraulics are used.

## 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.

## 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.

# Taking care of business

Different materials require different handling – but not necessarily different machines. Volvo machines equipped with the right attachments and units, provide the ideal solution. And the hydraulic attachment bracket enables you to change attachments easily without leaving the cab. The range of attachments has been systematically built up with long experience from most sectors. It is probably the most complete range of equipment for loaders available on the market.

## In the quarries

When it comes to rock handling the C-generation with the Volvo L330C represents a definite breakthrough. The C-generation has the breakout force, the durability and the weight required in quarries and hard banks. High penetration capacity in rocks is the result of well-matched, Volvo-developed drivetrains with Volvo high-performance low-emission engines and the operator friendly Automatic Power Shift II.

## King of the woodpile

Volvo wheel loaders meet all the needs of the timber terminal. With TP Linkage, the wheel loaders have the breakout torque needed to load and unload timber trucks safely and easily. Operating characteristics, reach, breakout torque and parallel lift-arm action combine to give short cycle times. The ability to switch quickly between different attachments, such as log grapple, pallet fork and wood chip bucket, gives high machine utilization.





#### Volvo L50C

TD 40 GFE

<b>Engine</b>			
<b>Rated output, at</b>	r/s (r/min)	36,7 (2 200)	
SAE J1349 gross	kW (hp)	74,6 (101)	
SAE J1349 net	kW (hp)	71,0 (97)	
<b>Max. torque, at</b>	r/s (r/min)	23,3 (1 400)	
SAE J1349 gross	Nm	403	
SAE J1349 net	Nm	396	
<b>Max. speed</b>	km/h	39	
<b>Tipping load</b>			
straight	kg	5 670	
full turn	kg	4 900	
<b>Breakout force</b>	kN	71,1	
with pin-on bucket	m³	1,2	
<b>Bucket capacity</b>	m³	1,2-3,9	
<b>Grapple area</b>	m²	0,7-1,0	
<b>Pallet fork, max. load</b>	kg	2 725	
<b>Operating weight</b>	t	7,8-9,0	



#### Volvo L70C

Volvo TD 63 KDE

	r/s (r/min)	35 (2 100)	
	kW (hp)	96 (130)	
	kW (hp)	90 (122)	
	r/s (r/min)	18,3 (1 100)	
	Nm	615	
	Nm	610	
	km/h	44	
		7 860	
		6 780	
		99,1	
		1,6	
		1,6-5,0	
		0,7-1,3	
		3 775	
		10,5-11,8	



#### Volvo L90C

Volvo TD 63 KBE

	r/s (r/min)	35 (2 100)	
	kW (hp)	118 (160)	
	kW (hp)	113 (153)	
	r/s (r/min)	18,3 (1 100)	
	Nm	695	
	Nm	690	
	km/h	38,2	
		10 550	
		8 980	
		118,2	
		2,5	
		2,2-7,0	
		1,3-2,0	
		6 075	
		14,4-16,1	



#### Volvo L120C

Volvo TD 73 KDE

	r/s (r/min)	35 (2 100)	
	kW (hp)	153 (208)	
	kW (hp)	148 (201)	
	r/s (r/min)	18,3 (1 100)	
	Nm	925	
	Nm	920	
	km/h	35,5	



#### Volvo L150C

Volvo TD 103 KCE

	r/s (r/min)	35 (2 100)	
	kW (hp)	189 (257)	
	kW (hp)	180 (245)	
	r/s (r/min)	18,3 (1 100)	
	Nm	1 390	
	Nm	1 380	
	km/h	33,9	



#### Volvo L180C

Volvo TD 122 KHE

	r/s (r/min)	35 (2 100)	
	kW (hp)	209 (284)	
	kW (hp)	198 (269)	
	r/s (r/min)	15,0 (900)	
	Nm	1 580	
	Nm	1 570	
	km/h	35,1	

#### Standard Boom

<b>Tipping load</b>			
straight	kg	14 030	
full turn	kg	11 910	
<b>Breakout force</b>	kN	161,6	
with pin-on bucket	m³	3,0	
<b>Bucket capacity</b>	m³	3,0-9,5	
<b>Grapple area</b>	m²	1,1-2,4	
<b>Pallet fork, max. load</b>	kg	6 725	
<b>Operating weight</b>	t	18,0-20,2	

#### Long Boom

<b>Tipping load</b>			
straight	kg	11 470	
full turn	kg	9 640	
<b>Breakout force</b>	kN	178,6	
with pin-on bucket	m³	2,5	
<b>Bucket capacity</b>	m³	2,5-9,5	
<b>Operating weight</b>	t	18,0-20,2	



#### Volvo L180C High-lift

Volvo TD 122 KHE

	r/s (r/min)	35 (2 100)	
	kW (hp)	209 (284)	
	kW (hp)	198 (269)	
	r/s (r/min)	15,0 (900)	
	Nm	1 580	
	Nm	1 579	
	km/h	35,0	
	kg	8 500	
	m²	3,2-4,8	
	t	30,5	



#### Volvo L220D

Volvo TD 122 KLE

	r/s (r/min)	27 (1 600)	
	kW (hp)	259 (352)	
	kW (hp)	257 (349)	
	r/s (r/min)	24,2 (1 450)	
	Nm	1 660	
	Nm	1 645	
	km/h	34,2	
	kg	-	
	m²	-	
	t	-	



#### Volvo L330C

Volvo TD 164 KAE

	r/s (r/min)	30 (1 800)	
	kW (hp)	370 (503)	
	kW (hp)	366 (498)	
	r/s (r/min)	16,7 (1 000)	
	Nm	2 370	
	Nm	2 330	
	km/h	34,2	
	kg	-	
	m²	-	
	t	-	

#### Standard Boom

<b>Tipping load</b>			
straight	kg	-	
full turn	kg	-	
<b>Breakout force</b>	kN	-	
with pin-on bucket	m³	-	
<b>Bucket capacity</b>	m³	-	
<b>Grapple area</b>	m²	-	
<b>Operating weight</b>	t	-	

#### Long Boom

<b>Tipping load</b>			
straight	kg	-	
full turn	kg	-	
<b>Breakout force</b>	kN	-	
with pin-on bucket	m³	-	
<b>Bucket capacity</b>	m³	-	
<b>Operating weight</b>	t	-	

		22 510	
		19 480	
		239	
		4,6	
		4,5-14,0	
		3,7	
		30,2-32,2	

		36 050	
		31 830	
		499,7	
		6,6	
		6,6-8,3	
		5,5-6,3	
		47,9-50,2	

		19 920	
		17 170	
		242	
		4,6	
		4,5-14,0	
		30,4-32,4	

		35 290	
		31 140	
		558,3	
		6,1	
		6,1-12,7	
		48,7-51,6	



## Technology on Human Terms

The Volvo Construction Equipment Group is one of the world's leading manufacturers of construction machines, with a product range encompassing wheel loaders, excavators, articulated haulers, motor graders and more.

The tasks they face vary considerably, but they all share one vital feature: technology which helps man to perform better.: safely, efficiently and with care of the environment. We refer to it as Technology on Human Terms.

The sheer width of the product range means it is always possible to choose exactly the right machine and attachment for the job. Each machine also comes with the quality, continuity and safety which is represented by the

Volvo name. The security of the service and parts organisation. The security of always having immediate access to leading-edge research and technical development. A machine from Volvo meets the very highest demands in all kinds of jobs, under all conditions. The world over.

*The Volvo Construction Equipment Group develops, manufactures and markets Volvo, Pel-Job, Mecalac, Champion and Samsung construction equipment. We are a Volvo company with production facilities on three continents and a market presence in over 100 countries.*

For more information please visit our web site:  
[www.volvo.com](http://www.volvo.com)

*Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.*

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