

**VOLVO WHEEL LOADER**

**L330D**



**VOLVO**

# Volvo L330D – a perfect marriage of muscles and brains



The new L330D comes with enough improvements to increase the profitability of even the most efficient operation. Among the many smart solutions offered by this heavyweight is a state-of-the-art load-sensing hydraulic system, a new monitoring system, Contronic II, and unequalled operator comfort in the new Care Cab II. We haven't forgotten our commitment to the environment either. Like all other Volvo loaders, the L330D meets existing environmental regulations.



#### Putting power where it's needed

The secret behind the efficient performance of the L330D is its load-sensing hydraulic system. In addition to providing superior bucket control, this system pumps oil only when and where it's needed. Besides saving fuel, load sensing hydraulics allow more engine power to be used by the drivetrain for increased penetration in tough digging conditions.

#### Power for productivity

The L330D features a 16-liter Volvo high performance low emission engine with a unique twin pump intercooling system. When combined with load sensing hydraulics, this powerhouse allows the L330D to deliver more rim-pull, better acceleration and greater penetration capacity than any competing machine. With maximum torque generated at only 1000 rpm, the engine responds instantly. Backing up all this power is a rugged countershaft transmission now offering four speeds in both the forward and reverse ranges for fast and efficient work cycles.

#### Efficient power

At Volvo, we've always believed that power by itself will only get you halfway. That's why we've focused on developing efficient drivetrains and hydraulic systems, permitting the power of the L330D to be turned into record-breaking productivity. Try out the new L330D for yourself, and see why muscles and brains are such an unbeatable combination.



In carrying applications such as block handling, the L330D's load-sensing hydraulics allow more engine power to the drivetrain for fast transport cycles.



Although it's a heavyweight, you'll find the L330D is both quick and agile.



Built for the toughest jobs – above or below ground.

# A breath of fresh air for the operator



Over the years, the Volvo name has become synonymous with operator comfort and safety. The L330D, featuring the new Care Cab II, is sure to enhance that reputation even further. From floor to ceiling, this cab has been designed to provide maximum comfort, safety and ease of operation. Not even the air inside has been left untouched. Our new ventilation system allows all recirculated air to pass through the main filter, providing the cleanest operator environment in the industry.

Designed with the operator in mind  
 Once you've comfortably positioned yourself in the multi-adjustable operator's seat, you'll soon discover why Care Cab II provides the best operator environment that money can buy. To your right, the hydraulic lever console can be adjusted to suit any operator. On the console itself, you'll find pilot-operated fingertip hydraulic levers for easy and precise boom/bucket control as well as controls for the APS II shifting system. All instrumentation is right in front of you on the center console of the new wrap-around dashboard. The three piece, silicon bonded front windshield provides excellent visibility to the front, while a new, larger rear window gives you a clear view.



Care Cab II offers unparalleled all-round visibility.

**Custom shifting**

The unique APS II automatic shifting system monitors both engine speed and ground speed to provide precise control of gear shifting at all times. APS II also features a dashboard mounted mode selector, enabling you to select one of four different shifting programs to optimize performance in any application.

**Keep an eye on performance**

The Contronic II monitoring system continuously monitors all vital



*Left:* Ten air outlets provide fresh filtered and climate-controlled air. The Contronic II control panel allows direct access to all major monitoring functions.

*Middle/right:* Forward, reverse or kickdown – APS II shifting can be controlled with the shift lever, rocker switch on the hydraulic console or the CDC armrest\*



Pilot operated fingertip hydraulic levers provide easy control of the hydraulic functions. The adjustable hydraulic lever console also features a rocker switch for forward/reverse shifting and a 1<sup>st</sup> gear kickdown button.

machine systems and functions, instantly alerting you when a potential problem or fault occurs. All information is displayed in plain text in the language of your choice. The new display control panel now features direct access buttons for all major monitoring functions, making the industry's most advanced watchdog even more user-friendly. Service technicians can use the optional Contronic II service display tool or our new PC-based data tracking system, Matris, to access operating information stored in the machine's main computer.

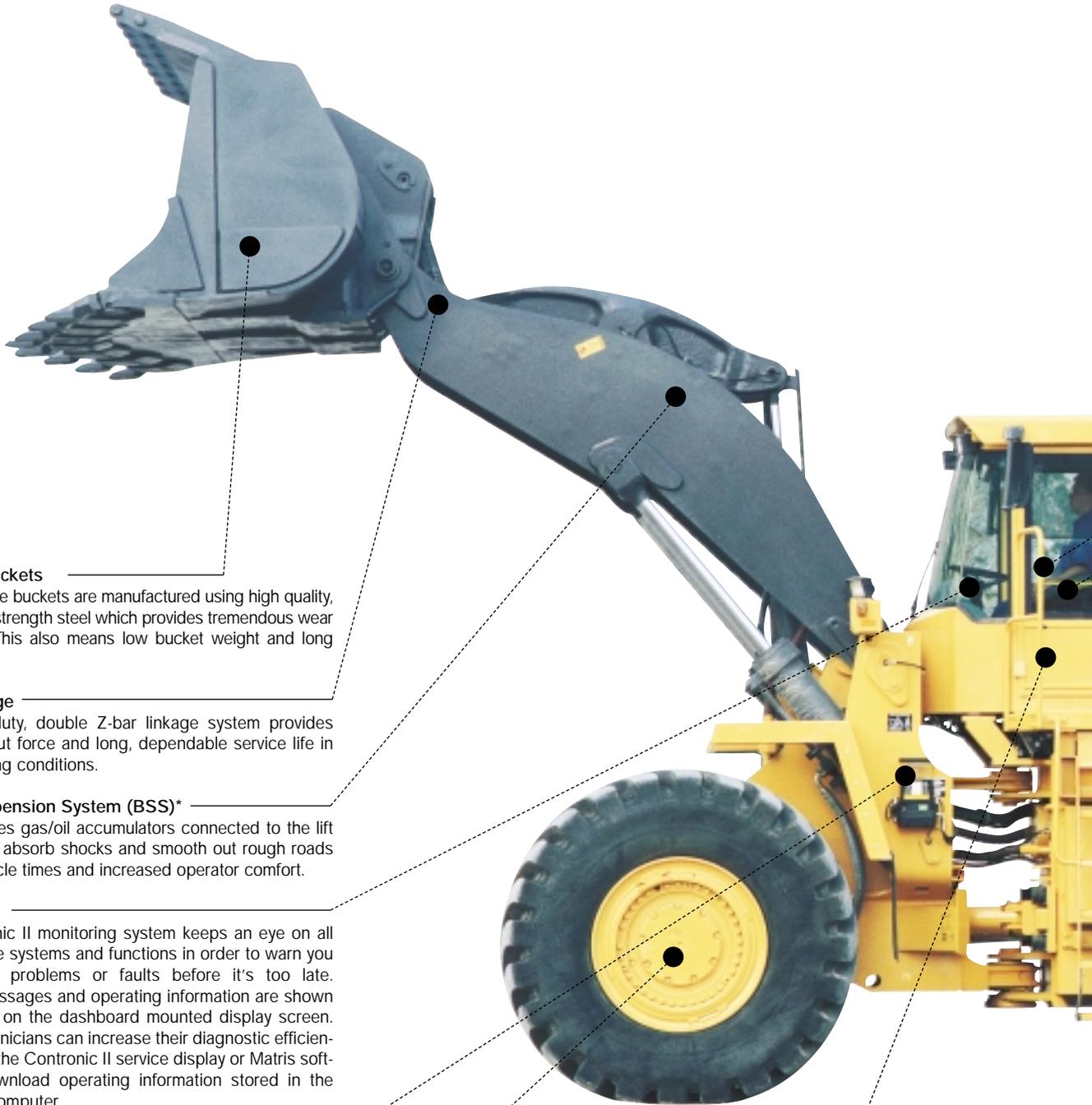
Increase comfort and productivity at the same time

A full range of productivity boosting options, including Comfort Drive

Control (CDC) lever steering, are available on the L330D. CDC is particularly effective in fast paced truck loading operations where continuous turning of the steering wheel can be trying over the course of a long day. Another productivity boosting option is the new and improved Boom Suspension System (BSS). BSS acts as a shock absorber for the loader linkage, smoothing out the bumps in rough terrain for faster travel speeds with both loaded and empty buckets.



# The Volvo L330D in detail



## Genuine buckets

Volvo genuine buckets are manufactured using high quality, high tensile strength steel which provides tremendous wear resistance. This also means low bucket weight and long service life.

## Z-bar linkage

The heavy-duty, double Z-bar linkage system provides high breakout force and long, dependable service life in tough digging conditions.

## Boom Suspension System (BSS)\*

BSS\* utilizes gas/oil accumulators connected to the lift cylinders, to absorb shocks and smooth out rough roads for faster cycle times and increased operator comfort.

## Contronic II

The Contronic II monitoring system keeps an eye on all vital machine systems and functions in order to warn you of potential problems or faults before it's too late. Warning messages and operating information are shown in plain text on the dashboard mounted display screen. Service technicians can increase their diagnostic efficiency by using the Contronic II service display or Matris software to download operating information stored in the machine's computer.

## Easier daily maintenance

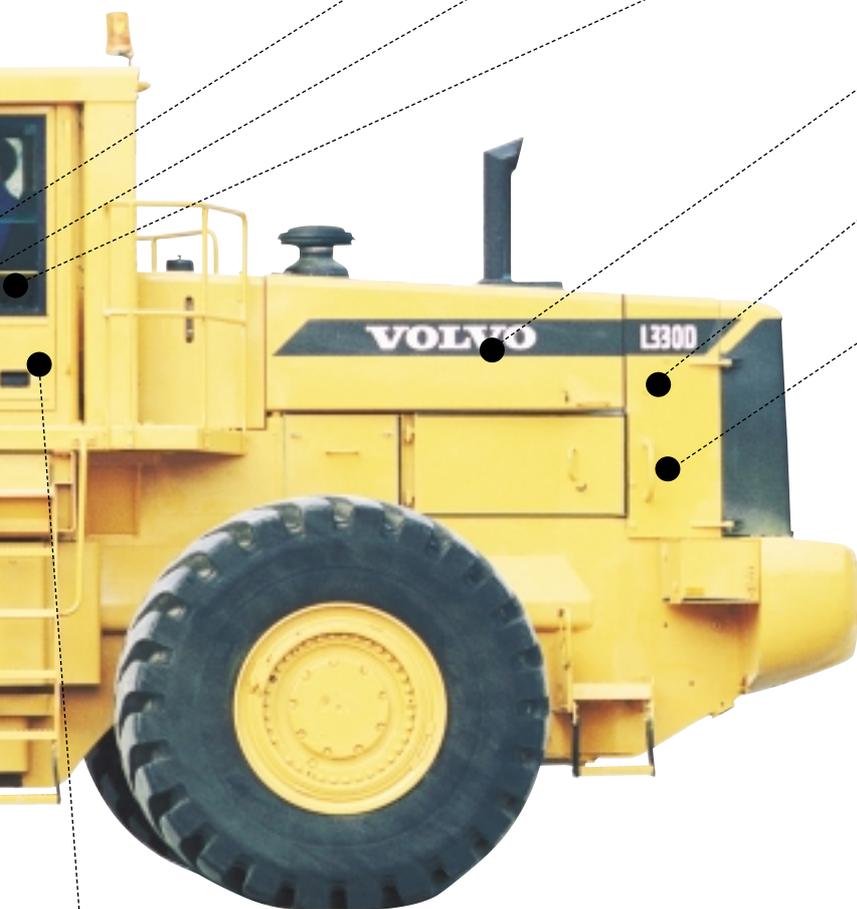
Our factory mounted Automatic Lubrication System\* takes care of required greasing while the machine operates in its normal work cycle. This means less downtime for scheduled maintenance and more productive work time.

## Heavy duty axles

Heavy duty axles with fully floating axle shafts, outboard mounted, forced oil cooled wet disc brakes and standard limited slip differentials front and rear make up the final link in the rugged and efficient L330D drivetrain.

## Care Cab II

A safe, comfortable, efficient and ROPS/FOPS certified operator environment featuring a new wraparound dashboard with central instrumentation, a larger rear window, and an adjustable hydraulic lever console with pilot-operated fingertip hydraulic levers.



**Load-sensing steering**

Low fuel consumption and easy steering at low rpm are two important benefits of the load-sensing steering system.

**Comfort Drive Control (CDC)**

Operator fatigue is reduced with the CDC lever steering system\*, which allows you to steer and shift with easily operated controls mounted on the left armrest of the seat.

**Load-sensing hydraulics**

The load-sensing hydraulic system utilizes three variable displacement piston pumps to circulate oil only when and where needed, saving fuel and conserving engine power for greater penetration when loading the bucket, and faster cycle times in load and carry operations.

**High Performance Low Emission Engine**

The 16 liter Volvo engine generates maximum torque at only 1000 rpm, providing quick response and meeting all existing exhaust emission requirements.

**Excellent Serviceability**

Serviceability couldn't be easier thanks to the swing-out service access panels, grouped lubrication points, swing-out grille and fan, and the Contronic II monitoring system.

**Low external noise levels**

Separate compartments for the engine and radiator, as well as a hydraulically driven, thermostatically controlled cooling fan, help to keep external sound levels under existing legal requirements.

*\* Optional.*

**APS II**

Volvo's unique automatic shifting system, APS II, monitors both engine speed and ground speed to provide optimum control of transmission shifting in any application. A dashboard mounted mode selector allows you to choose one of four different shifting programs to customize machine performance to your job. A 1st gear kick-down button and forward / reverse rocker switch mounted on the hydraulic console allow you to operate the APS II system with your right hand while your left hand stays on the steering wheel at all times.

**Specifications L330D**

Engine:	Volvo TD 164 KAE
Max power at	30,0 r/s (1800 r/min)
SAE J 1995 gross	370 kW (503 hp)
ISO 9249,	
SAE J 1349 net	366 kW (498 hp)
Max torque at	16,7r/s (1000 r/min)
SAE J 1995 gross	2370 Nm
ISO 9249,	
SAE J 1349 net	2340 Nm
Breakout force:	458,2 kN**
Static tipping load:	
at full turn	31 490 kg**
Buckets:	6,1 m <sup>3</sup> - 13,5 m <sup>3</sup>
Timber grapples:	5,5 - 6,3 m <sup>2</sup>
Operating weight:	48,5 - 52,0 ton
Tires:	35/65-33
<i>**Bucket: 6,9 m<sup>3</sup> straight edge w/teeth and segments.</i>	
<i>Tires: 35/65 R33 L5 GY, Standard boom</i>	



## Technology on Human Terms

Volvo Construction Equipment 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 security

which is represented by the Volvo name. The strength of the service and parts organizations; the security of always having immediate access to leading-edge research and technical development are part of the Volvo name. A machine from Volvo meets the very highest demands in all kinds of jobs, under all conditions, the world over.

*Volvo Construction Equipment develops, manufactures and markets construction equipment. We are a Volvo company with production facilities on four continents and a market presence in over 100 countries.*

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

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

# **VOLVO**

**Volvo Construction Equipment**