

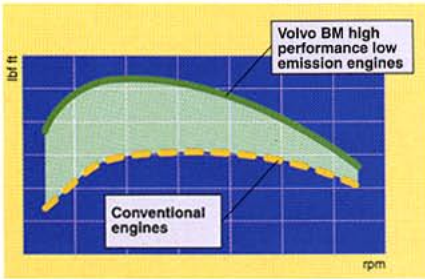
# Volvo BM Wheel Loaders

L150C, L180C



**VOLVO BM**

The high-performance, low emission engines in the Volvo BM L150C and L180C comply with all current emission requirements for construction machinery.



The high-performance, low emission engine has significantly higher torque at low rpms than conventional engines. Maximum torque is between 900–1200 rpm.

Automatic Power Shift II optimizes fuel consumption by allowing the operator to select a shift mode suited to the work and ground conditions.

Recyclable metals, glass, rubber and labeled plastics.

CFC-free air conditioning and biodegradable hydraulic fluid are available as options.



# The High-performance Engine Increases Penetration Force And Reduces Cycle Times.



- The patented lift-arm system, TP Linkage, provides parallel lift and unbeatable breakout torque throughout the entire lifting range.
- The ROPS/FOPS approved Volvo Care Cab offers the operator an ergonomically designed working environment with excellent all-round visibility.
- Two-circuit brake system improves safety.
- Load-sensing steering system for easy operation and reduced fuel consumption.
- 100% differential lock on the front axle.
- AWB axles with fully enclosed outboard mounted, circulation-cooled wet disc brakes.

The 5 cubic yard Volvo BM L150C and the 6 cubic yard L180C are high production loaders for rock, gravel and timber handling. Their strength and production capacity are the result of a well-matched drivetrain. The increased torque from the smooth running 6-cylinder, high-performance, low emission engine provides improved power and penetration capacity. Torque is transferred to the fully floating drive axles via a well matched transmission with APS II, a further development of our well proven and reliable automatic gearshifting system, which improves the handling, productivity and fuel economy of the machines.

Work capacity is further increased by the unique lift-arm system, TP Linkage, which maintains force and parallel action throughout the entire lifting range and also provides the operator with excellent control over attachments and loads in all situations.



*The Volvo BM L150C and L180C are equipped with high-performance, low emission engines as standard. Exhaust emissions are well below the limits for construction machinery to be introduced in the USA in 1996 and in Europe and Japan in 1997.*

## ERGONOMICS AND OPERATOR-FRIENDLINESS

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

From floor to ceiling, the Volvo BM Care Cab is a workplace with well thought-out ergonomic design to raise operator productivity, comfort and safety. Superb visibility combined with APS II, pilot operated working hydraulics, and Comfort Drive Control (optional), make it possible to precisely maneuver the loader with minimum effort. The operator environment in the Volvo BM Care Cab helps you to maintain speed and precision throughout the work shift.



#### Choose your operator seat.



Choose between mechanical or air suspended seats to find the most suitable one. Backrest, seat cushion and suspension are easy to set comfortably, according to the weight and height of the operator.

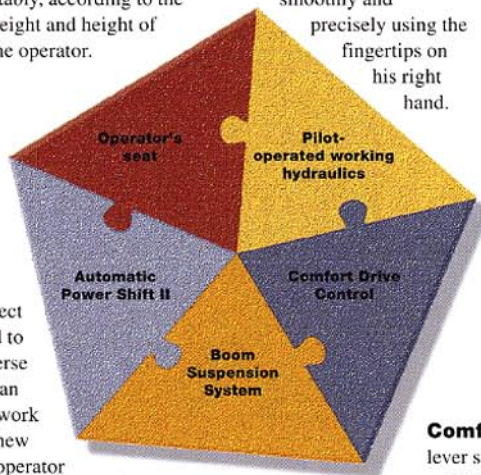
#### Pilot operated working hydraulics

allow the operator to control the bucket smoothly and precisely using the fingertips on his right hand.

The Care Cab has rubber vibration damping and thick insulation for quiet and smooth operation. The heating and ventilation system provides fresh, filtered air at an even temperature from 14 adjustable vents. Visibility is excellent in all directions.

#### Automatic Power Shift II

ensures that the machine always operates in the correct gear. You only need to select forward, reverse or kick-down and can concentrate on the work at hand. Using the new mode selector, the operator is able to select the best shift program for the ground conditions and type of work.



Comfort Drive Control is an electrohydraulic lever steering control system with forward/reverse and kick-down features integrated in the armrest, halving the static strain to shoulders, back and arms. CDC contributes to a perfect working posture, maintaining operator productivity throughout the work shift. (Option)



#### Boom Suspension System

Boom suspension reduces stress to both machine and operator and makes it possible to maintain high average speeds on uneven ground. (Option)

## PRODUCT SUPPORT

### Excellent serviceability leaves more time for productive work

Volvo Construction Equipment Product Support makes it possible for your machine to achieve optimum productivity. Loaders operate in varying conditions. For this reason, a preventative maintenance program is adapted to your work and your operating conditions. This, combined with the use of genuine parts and our remanufactured components, guarantees optimum availability and a machine which is always in top condition.

Volvo BM loaders have a long standing reputation for simple checks and inspections. Serviceability 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 instructional video.

The Contronic monitoring system means that Volvo BM loaders are also highly advanced technically.

The system reminds the operator of periodic service and provides quick, precise diagnoses for service work.



Easily accessible service points. Large hatches with gas springs and hinged radiator save time for daily inspections. Time you can use for productive work.

## PRODUCTIVITY

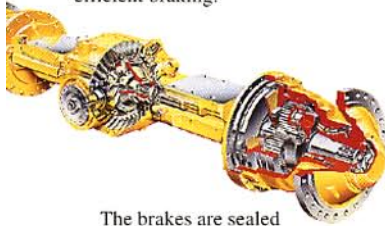
### High-performance engine, APS II and TP Linkage provide more tons per hour

The high-performance engines in the Volvo BM L150C and L180C have new systems for fuel injection and charge air cooling which give the engines more efficient combustion and improved performance. Faster acceleration reduces work cycle times. Due to increased traction, the Volvo BM L150C and L180C also have better penetration capacity in hard banks and rock. In order to further increase productivity, the operator can use APS II to set the automatic gearshift points according to the intensity of the work. During intensive production loading, the TP Linkage displays its superior strength throughout the entire lifting range.



Short distance between the center of gravity of the load and the front axle provides increased stability. In the carry position, the cutting edge of the bucket is basically parallel with the ground, allowing increased heap and less spillage.

Axles with outboard mounted, circulation-cooled wet disc brakes for smooth and efficient braking.



The brakes are sealed and fully protected.



### Reach even higher with the Long Boom

By equipping the Volvo BM L150C and L180C with the Long Boom, dump height is increased by 0.5 meter,  $\approx$  2 feet.



The low emission, high-performance engine features high torque at low rpm to increase penetration capacity and provide quick acceleration for intensive truck loading.



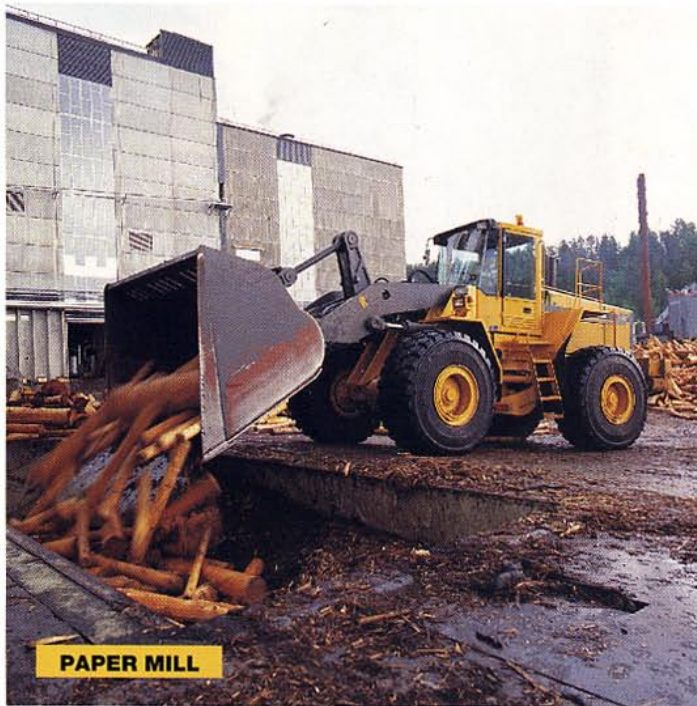
The load-sensing steering makes the wheel loader easy to maneuver and provides smooth handling. Compact lift-arm geometry and long wheelbase give excellent stability.



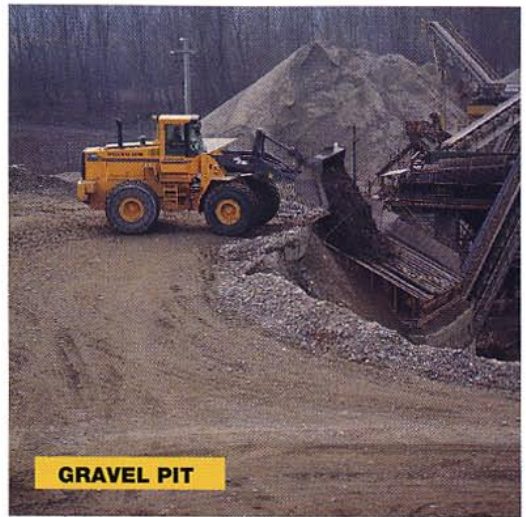
APS II, with mode selector, ensures that the machine always operates in the correct gear. The operator quickly changes direction using the direction selector.



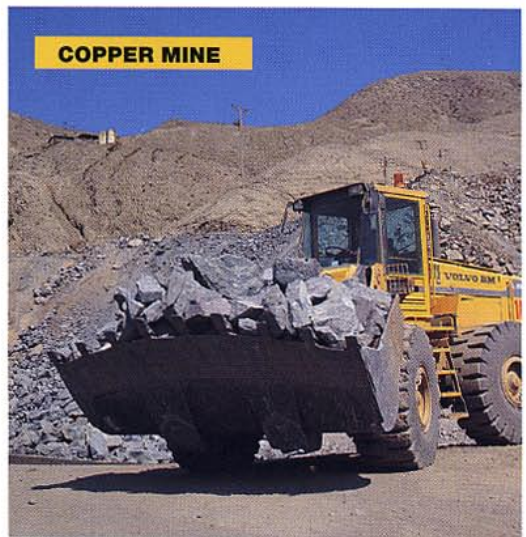
The TP Linkage maintains breakout torque and parallel lift-arm action throughout the entire lifting range and provides the operator with excellent control of the load in all situations.



**PAPER MILL**



**GRAVEL PIT**



**COPPER MINE**

**ROAD  
CONSTRUCTION**



**TIMBER  
HANDLING**



**QUARRY**



**VOLVO BM  
L180C High-Lift**

**Volvo BM L150C**

Weight	21,900 — 25,800 kg	48,160 — 55,000 lbs
Bucket volume	3.5 — 12.0 m <sup>3</sup>	4.6 — 15.7 yd <sup>3</sup>
Engine output SAE net	180 kW	245 hp
Tipping load, full turn	14,800 kg	32,630 lbs
Breakout force	193 kN	43,420 lbf
Tires	26.5—25 alt. 23.5-25	

**Volvo BM L180C**

Weight	24,200 — 27,500 kg	53,360 — 60,600 lbs
Bucket volume	4.2 — 14.0 m <sup>3</sup>	5.5 — 18.3 yds <sup>3</sup>
Engine output SAE net	198 kW	269 hp
Tipping load, full turn	17,540 kg	38,660 lbs
Breakout force	212 kN	47,590 lbf
Tires	26.5—25	

Under our policy of continuous product improvement, we reserve the right to change specifications or design without prior notice. Illustrations do not necessarily show standard versions of the machines.



## Technology on human terms

The well-thought-out operator environment in Volvo BM wheel loaders has set the standard in the industry ever since we pioneered cabs on construction machines.

The operator environment is a good example of what distinguishes Volvo BM from other wheel loaders—holistic engineering—which has resulted in improved productivity, availability, safety, operator comfort and environmental compatibility.



Advanced technology such as APS II, pilot-operated load-sensing working hydraulics, Volvo BM Comfort Drive Control and the Boom Suspension System



create a first-class operator environment that enhances the productivity of both machine and operator.

The Contronic monitoring system, TP Linkage and high-performance low-emission engines are other examples of world-leading technical solutions that boost productivity and reduce stress on man, machine and environment.

**VOLVO BM**



## **Volvo Construction Equipment**

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