

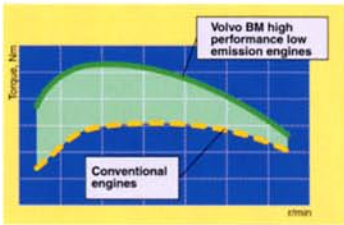
Volvo BM Wheel Loaders

L150C, L180C



VOLVO BM

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



The high-performance, low emissions engine has significantly higher torque at low engine speeds than conventional engines. Maximum torque is in the range 900–1200 rpm.

Automatic Power Shift II with a mode selector for Manual, Heavy Duty, Medium and Light reduces fuel consumption for all types of work.

Recyclable components in metal, castings, glass, rubber and labeled plastics.

Water-based paints.

CFC-free heating and ventilation 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, has almost precise parallel action 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.



The Loadtronic load weighing system (option) automatically registers material being loaded, its destination and quantity. Carry out work as normal and change between four different Volvo BM attachments without recalibrating.

- Two-circuit brake system improves safety.
- Load-sensing steering increases the pleasure of operating the machine and reduces fuel consumption.
- 100% differential lock on the front axle.
- Floating AWB axles with fully enclosed wet circulation-cooled disc brakes.

With their 22 and 25 tonnes respectively the Volvo BM L150C and L180C production loaders have the weight necessary for rock, gravel and timber handling.

Their strength and production capacity is the result of a well-matched drivetrain. The increased torque from the smooth running 6-cylinder high-performance, low emissions engine provides improved power and penetration capacity. Torque is transferred to the fully floating drive axles via a well matched transmission with APSII, a development on 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 which provides the operator with excellent control over attachments and load in all situations.



The Volvo BM L150C and L180C are equipped with high-performance, low emissions engines as standard. The purified 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-through ergonomic design to raise operator productivity, comfort and safety. Superb visibility with 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 BM Care Cab plus superb visibility helps you to maintain speed and precision throughout the work shift.

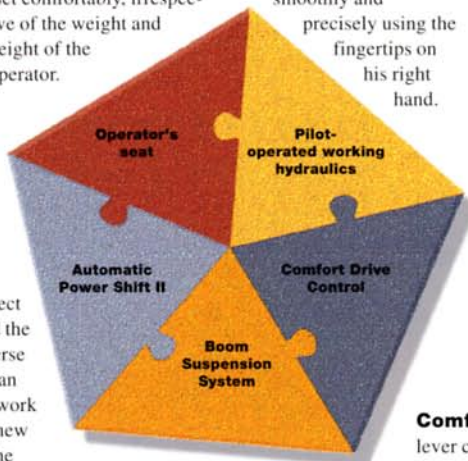


Choose your operator seat.

There are many seats to choose between, making it easy to find the most suitable one. Backrest, seat cushion and suspension are easy to set comfortably, irrespective of the weight and height of the operator.

Pilot operated working hydraulics

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



Automatic Power Shift II

ensures that the machine always operates in the correct gear. You only need the select forward, reverse or kick-down and can concentrate on the work in hand. Using the new program selector, the operator is able to adapt the gearshift points to the type of work.



Boom Suspension System

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



The Care Cab has vibration damping and is quiet due to the rubber suspension and thick insulation. The heating and ventilation system provides fresh, filtered air at an even temperature from 14 adjustable vents.

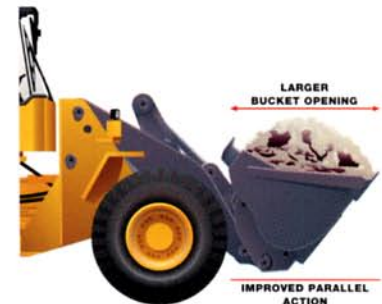


Comfort Drive Control is an electrohydraulic lever control system with forward/reverse and kick-down features integrated in the armrest, halving the static strain to shoulders, back and arms. CDC contributes to a perfect working posture, maintaining productivity throughout the work shift. (Option)

PRODUCTIVITY

High-performance engine, APSII and TP Linkage provide more tonnes 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 the productivity of the wheel loader, the operator can use APSII 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 wet, circulation-cooled disc brakes for smooth and efficient braking.



The brakes are sealed and fully protected.

PRODUCT SUPPORT

Service-friendliness 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 system of exchange components, guarantees optimum availability and a machine which is always in top condition.

For a long time, Volvo BM machines have occupied a unique position when it comes to rationalization of methods and design details which allow simple checks 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 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.



Reach even higher with the Long Boom

By equipping the Volvo BM L150C and L180C with the Long Boom, lifting height is increased by 0.5 meter.



The high torque of the high-performance engine at low speeds increases penetration capacity and provides quick acceleration for intensive loading on trucks.



The load-sensing steering makes the wheel loader agile and provides smooth handling, irrespective of load. Compact lift-arm geometry and long wheelbase give excellent stability.



APSII, with program selector, ensures that the machine always operates in the correct gear. The operator quickly changes direction using the direction selector.



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



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 the 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



**PAPER MILL,
NORWAY**



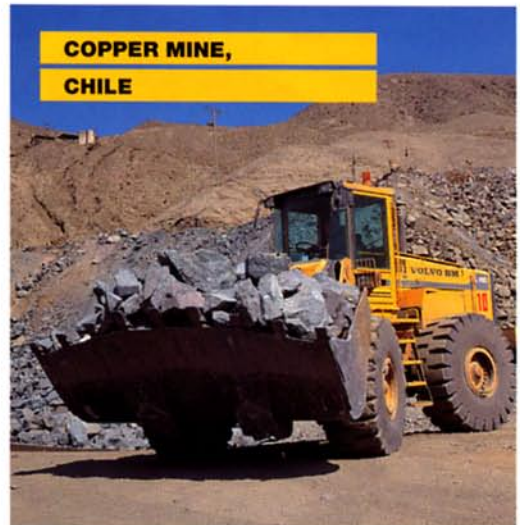
**GRAVEL PIT,
GERMANY**



**TIMBER
HANDLING,
NORWAY**



**ROAD CONSTRUCTION,
PORTUGAL**



**COPPER MINE,
CHILE**



**QUARRING OF STONE,
COLOMBIA**



**STONE CRUSHING,
SWEDEN**



**COMPACTING,
SWEDEN**

Volvo BM L150C

Weight	21.9–25.8 t
Bucket capacity	3.5–12.0 m ³
Engine output SAE net	172 kW (234 hp)
Tipping load, full turn	14 800 kg
Breakout force	193 kN
Tyres	26.5–25

Volvo BM L180C

Weight	24.2–27.5 t
Bucket capacity	4.2–14.0 m ³
Engine output SAE net	198 kW (269 hp)
Tipping load, full turn	17 540 kg
Breakout force	212 kN
Tyres	26.5–25



**Volvo Construction
Equipment**

