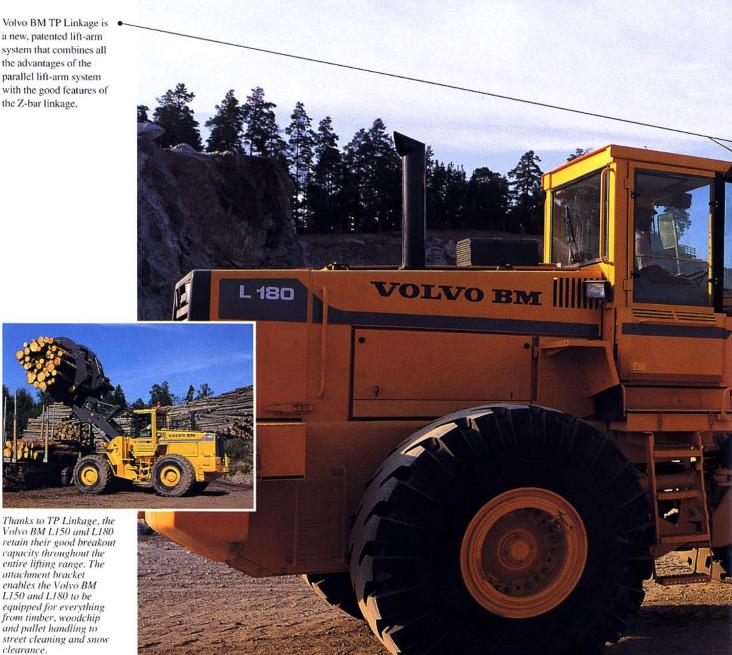


a new, patented lift-arm system that combines all the advantages of the parallel lift-arm system with the good features of the Z-bar linkage.



TP Linkage keeps productivity up in all situations



 The location of the tilt cylinder and the unique T-bar link give the operator good visibility over the bucket and the front wheels, regardless of the bucket's position.

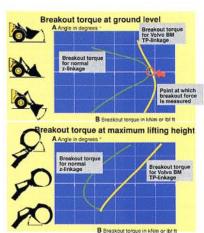
The lift arms are situated high for longer reach and higher lift height.

he Volvo BM L180 and L150 production loaders are two heavyweights, built to tackle the toughest tasks in rock and aggregate handling.

Both are equipped with our new, patented lift-arm system, Volvo BM TP Linkage. TP (Torque Parallel) Linkage combines the advantages of the market's two most successful lift-arm systems—the Volvo BM parallel system and the traditional Z-bar linkage.

Parallel lift-arm action is nearly exact through the working range. Furthermore, TP Linkage is stronger than the Z-bar linkage throughout the lifting range. The secret is a unique T-link and the location of the tilt cylinder.

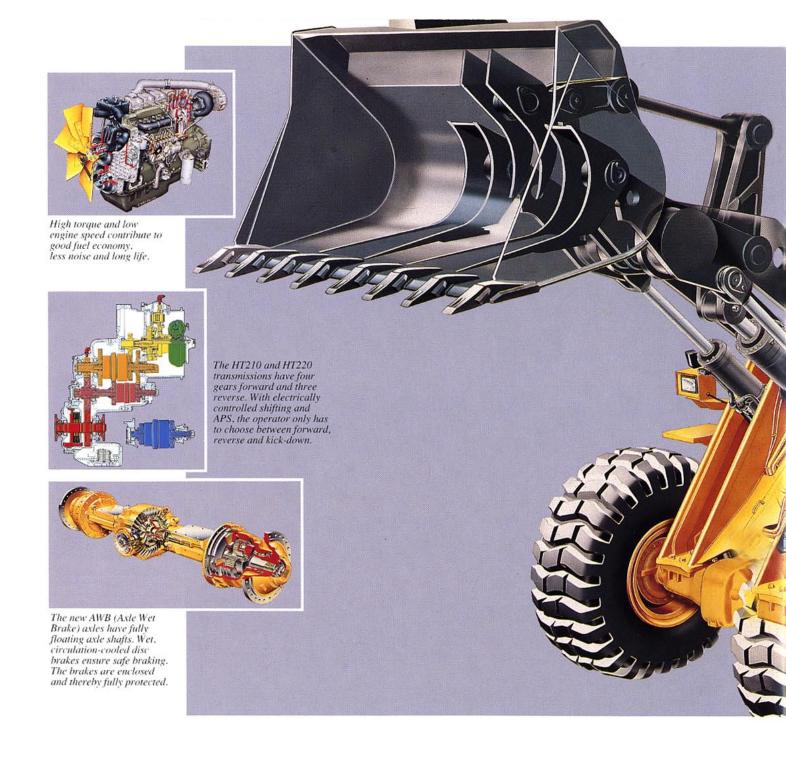
Normally, breakout force is measured only at ground level. There the difference is small. But in the carry position and during breakout in the top position, the Z-bar link loses 60 percent of its force. This results in unnecessary spillage and makes certain tasks impossible. TP Linkage retains at least 85 percent of its force in all positions and gives you full control over attachment and load.



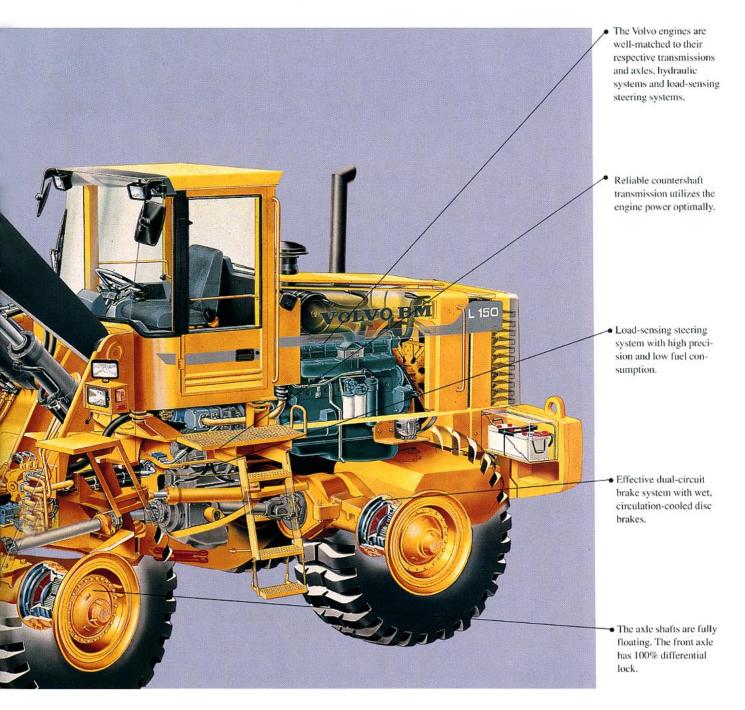
The diagram shows that a comparison of the breakout force at a single point gives an incomplete picture of the loader's capacity in practice.

loader's capacity in practice.

The breakout torque for Volvo BM TP Linkage surpasses the Z-bar linkage throughout the lifting range. Parallel lift-arm action is nearly exact throughout the working range; in fact it is slightly better than the old parallel system.



The strongest chain has no weak links



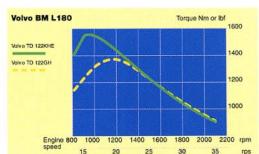
he power and capacity of the Volvo BM L180 and L150 cannot be traced to any single component. The power is the result of a chain without any weak links.

The difference between a world-leading wheel loader and a mediocre one lies in how well the parts of the drivetrain are matched to each other, to the working hydraulics and to the loader unit.

The drivetrain in the Volvo BM L180 and L150 is made up entirely of robust, VME-made components. It is a well-balanced whole consisting of top-class parts.

From the powerful, direct-injection 6-cylinder turbodiesel engine—which responds instantly when you step on the trottle, even under full load from low rpms - to our new, fully floating AWB axles with wet, circulation-cooled disc brakes.

The power is transmitted by a 4-speed Volvo BM transmission with our patented and field-proven Automatic Power Shift, APS.



Optional low-emission engines have higher torque at lower rpm than the standard engines. Better performance and lower emissions are the natural result of more efficient combustion. Volvo BM's low-emission engines meet the future environmental requirements specified by both European and California standards.

The Volvo BM Care Cab is quiet and vibrationless, thanks to rubber cab mounts and superb insulation.

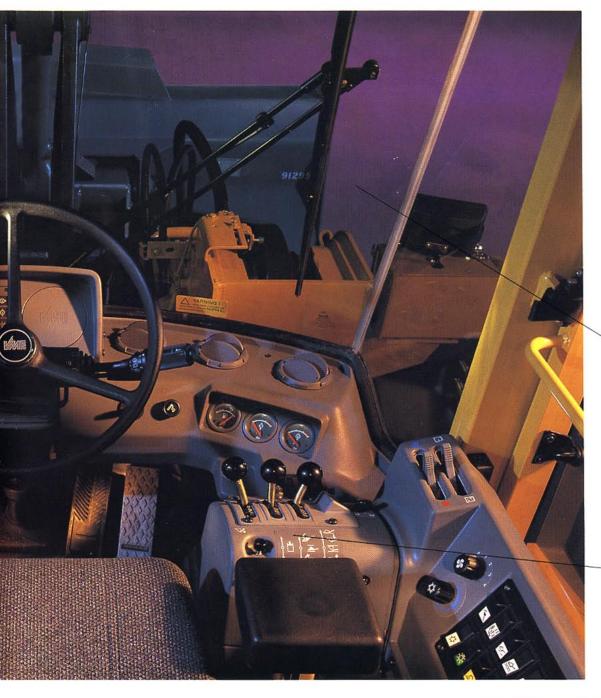
The heating and ventilation system supplies tempered, double-filtered fresh air from 14 adjustable air outlets.

Tilt and telescopic steering wheel is standard equipment.

The flat, threshold-free floor is easy to keep clean.



Volvo BM Care Cab This is where the machine's most important production factor sits



The climate control system can be equipped with ozone-friendly R134a air conditioning. (Standard in certain markets)

 The curved windshield without corner pillars and the large glazed areas provide excellent allround visibility.

The operator can sit comfortably and work efficiently thanks to the ergonomically located controls.

o matter how advanced the technology gets, the operator will always be the machine's most important production factor.

The Volvo BM Care Cab is an ergonomic, carefully thought-out workstation from floor to ceiling.

After taking your place in the operator's seat, you can easily adjust it to a comfortable working position, regardless of your height and weight. Large panes of glass and the curved windshield without corner pillars give you perfect all-round visibility.

Thanks to the pilot-operated working hydraulics you can control the bucket with smooth and precise movements using the fingertips of your right hand, while your arm rests on the adjustable armrest. The hydraulic console has buttons for kick-down and downshifting, and forward/reverse is available as an option. In this way you can operate all functions with the fingertips of your right hand and concentrate on steering with your left hand. You don't have to touch the gearshift lever.

This technology enables you to work with undiminished precision and pace during long, demanding work shifts.



The Volvo BM Care Cab is designed from floor to ceiling to enhance the operator's productivity. The curved windshield without corner pillars and large panes of glass contributes to higher safety on the work site. The Volvo BM Care Cab is, of course, ROPS/FOPS-approved.



APS means shorter work cycles and longer life



 By setting the automatic bucket positioner and boom kick-out to preselected positions, you automatically get the right position for a level bucket and the right height for dumping.

APS has built-in overload protection that increases availability and service life.

 VME-made Power Shift transmission of the countershaft type. Proven reliable and easy to service.

Upshifting from 2nd reverse to 3rd takes place at a relatively high rpm. In this way you can decide via the accelerator when you want to shift up. If you want to avoid upshifting during acceleration, keep the downshift button depressed.

he Volvo BM L180 and L150 are equipped with APS, Automatic Power Shift. APS ensures that the machines always work in the right gear. APS therefore reduces fuel consumption by up to 30 percent, depending on the task at hand.

APS improves the efficiency of the operator's work in each phase of the work cycle. Most importantly, you can concentrate on other things besides operating the gearshift lever. Furthermore, spillage is reduced thanks to smooth forward/reverse shifting. Finally, quick acceleration shortens the cycle time and boosts productivity.

Shifting is controlled electrically by a microprocessor. You only have to select forward, reverse or kick-down.

APS's refined design with built-in overload protection has been proven reliable by many years of use. It also extends the service life of the transmission. This has been shown by more than 15 years' experience and 24,000 units produced.



The Loadtronic load weighing system (option) automatically records what, to whom and how much you load directly during loading. You can operate and load just as usual, and also switch between four Volvo BM attachments without recalibrating.

Excellent all-round visibility and good lighting contribute to high safety and maneuverability.

Comfort Drive Control (CDC) and Boom Suspension System boost capacity and reduce stress and strain on both machine and operator. (Option)

The front and rear wheels always run in the same track. This reduces rolling resistance and tire wear



A joy to operate



 Less spillage in the carry position. The operator has the bucket in an iron grip, and the bucket opening is almost exactly parallel to the underlying surface.

 Compact lift-arm geometry positions the load's center of gravity near the front axle. Stability increases and the tipping load is utilized to the fullest extent.

Patented load-sensing steering and long wheelbase make the Volvo BM L180 and L150 quick, nimble and stable to drive. This reduces the cycle times in both load and carry work and high-speed load and carry runs.

The steering angle of 37° to both sides minimizes the turning radius in precision jobs in confined areas. The steering is quick and precise with few turns of the wheel and low wheel effort. The steering pump with variable flow gives constant steering performance regardless of resistance. This is a fuel-efficient solution, since oil is not circulated unnecessarily.

This smart design makes our heavyweights remarkably easy to maneuver.

Optional items of equipment such as Comfort Drive Control and Boom Suspension System boost capacity and reduce stress and strain on both machine and operator. This further reduces cycle times and enhances operating pleasure.

An operator who enjoys his work will also do a better job.



An effective dual-circuit brake system with hydraulic accumulators and fully hydraulic, circulation-cooled disc brakes provide excellent braking capacity.

Large, easy-to-open access doors, raised by gas struts. The doors can be equipped with locks.

Hinged radiator grill with

adjustable gas strut and easily accessible swingout radiator simplify

cleaning.



Serviceability leaves more time for productive work



Il wheel loaders need service and maintenance to function optimally throughout their life. However, not all loaders are equally easy to take care of.

The Volvo BM L180 and L150 are designed from the start for a minimum of downtime. In addition, they are equipped with the electronic monitoring system Contronic, which simplifies service, improves availability and actively contributes to lower maintenance costs.

Contronic informs you in plain text what kind of service the machine needs and when. A five-language display keeps the operator constantly apprised of the machine's condition, including engine and transmission temperature. This reduces the risk of unscheduled service stoppages and prolongs the life of the machine.

Contronic can be programmed to shut the engine down to idle in the event of low engine oil pressure, high engine coolant temperature or high transmission oil temperature.

Large access doors raised by gas struts and a swing-out radiator facilitate daily service and maintenance. This excellent accessibility saves time—time you can use for more productive work.



The Contronic system automatically records malfunctions in its memory. A special service display provides more detailed information on 17 different functions. Quick diagnosis of the machine's status minimizes the time for troubleshooting.

Volvo BM TP Linkage is a new, patented lift-arm system that combines all the advantages of the parallel system with the good features of the Z-bar linkage.

The Volvo BM Care Cab has excellent all-round visibility, thanks to the curved windshield without corner pillars and large glazed areas.

Powerful, direct-injection, • 6-cylinder Volvo turbodiesel engine with excellent low-rev lugging performance. Available in low-emission version.

Pilot-operated working hydraulics give you smooth and precise fingertip control of the bucket.

Fully floating AWB axles with wet, circulationcooled disc brakes.

Patented load-sensing steering and long wheelbase make the Volvo BM L180 and L150 quick, nimble and stable to drive.





High capacity, long life and high resale value add up to the best total economy



- The location of the tilt cylinder and the unique T-bar link give the operator good visibility over the bucket and the front wheels, regardless of the bucket's position.
- The lift arms are situated high for longer reach and higher lift height.
- The Contronic electronic monitoring system simplifies service, improves availability and actively contributes to lower maintenance costs.



- 4-speed Volvo BM transmission with duty-proven reliable Automatic Power Shift (APS) as standard.
- Hinged radiator grill with adjustable gas strut and easily accessible swingout radiator simplify cleaning.

A service-friendly location makes all filters easy to replace.

Volvo BM L150

Operating weight	20,6-25,4 t	(45 500-56 000 lb)
Bucket sizes	3,5-12,0 m ³	(4,6-15,7 yd3)
Engine	Volvo TD 102	
Output gross at	35 r/s .	(2 100 r/m)
SAE J1349	180 kW	(245 hp)
DIN 70020/6271	170 kW	(231 hp)
Max. torque at	20,0 r/s	(1 200 r/m)
SAE J1349 Gross	1 000 Nm	(738 lbf ft)
SAE J1349 Net	980 Nm	(723 lbf ft)
DIN 70020/6271	980 Nm	(723 lbf ft)
Tipping load with bucket	3,5 m ³	4,6 yd3
straight	15 530 kg	(34 240 lb)
at 35° turn	13 820 kg	(30 470 lb)
at full turn	13 620 kg	(30 030 lb)
Breakout force	195 kN	(43 840 lbf)

Volvo BM L180

Operating weight	23,4-28,5 t	(51 600-62 800 lb)
Bucket sizes	4,2-14,0 m ³	(5,5-18,3 yd3)
Engine	Volvo TD 12	2
Output gross at	33,3 r/s	(2 000 r/m)
SAE J1349	211 kW	(289 hp)
DIN 70020/6271	202 kW	(275 hp)
Max. torque at	18,3 r/s	(1 100 r/m)
SAE J1349 Gross	1 390 Nm	(1 025 lbf ft)
SAE J1349 Net	1 380 Nm	(1 018 lbf ft)
DIN 70020/6271	1 380 Nm	(1 018 lbf ft)
Tipping load with bucket	4,2 m ³	(5.5 yd^3)
straight	18 190 kg	(40 100 lb)
at 35° turn	16 030 kg	(35 340 lb)
at full turn	15 780 kg	(34 790 lb)
Breakout force	210 kN	(47 210 lbf)





Hard work as far as the eye can see!

VME North America

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