

# **VOLVO BM**

ARTICULATED HAULERS: MODELS A20, A25, A35



# **EXCELLENT OFF-ROAD MOBILITY**

Volvo BM's Articulated Haulers have racked up successes all over the world thanks to their productivity and unsurpassed off-road mobility. Long experience from the production of off-road haulers has given Volvo BM a line of machines that possesses ideal characteristics for solving the most difficult transport problems. In order to maintain continuity of production in all conditions, the construction sector is placing increasing emphasis on machine flexibility and their ability to switch duties at short notice. In this situation the articulated hauler is proving more and

more to be the right choice. All Volvo BM Articulated Haulers have the same exclusive features and design solutions: articulated steering, all-wheel drive, all-terrain bogie, fully automatic transmission and comfort cab. There is a range of models available allowing the right size and specification of machine to be selected for the job. You will also have access to resources that only one of the world's leading manufacturers of articulated haulers can offer in terms of service, technical development and security of invested capital.



## **A 20 6x4**

Reliable haulage and difficult conditions.  
Also on public roads.  
Payload capacity 18 500 kg (20 sh tons)  
Top speed 34 km/h (21.2 mph)  
Articulated steering/all-terrain bogie,  
4-wheel drive



## **A 20 6x6**

Short hauls over difficult ground.  
Payload capacity 18 500 kg (20 sh tons)  
Top speed 34 km/h (21.2 mph)  
Articulated steering/all-terrain bogie,  
6-wheel drive



## **A 25 4x4**

Fast and agile for varying operating  
conditions.  
Payload capacity 22 500 kg (25 sh tons)  
Top speed 51 km/h (31.2 mph)  
Articulated steering, 4-wheel drive



## **A 25 6x4**

High capacity over mixed and difficult  
ground conditions and on long haul  
applications.  
Payload capacity 22 500 kg (25 sh tons)  
Top speed 47 km/h (29.2 mph)  
Articulated steering/all-terrain bogie,  
4-wheel drive



## **A 25 6x6**

High capacity and flexible over mixed and  
very difficult ground conditions.  
Payload capacity 22 500 kg (25 sh tons)  
Top speed 51 km/h (31.2 mph)  
Articulated steering/all-terrain bogie,  
6-wheel drive



## **A 35 6x6**

The high-capacity alternative that is equally  
effective in difficult terrain or good  
haulroom conditions.  
Payload capacity 32 000 kg (35 sh tons)  
Top speed 52,7 km/h (32.7 mph)  
Articulated steering/all-terrain bogie,  
6-wheel drive

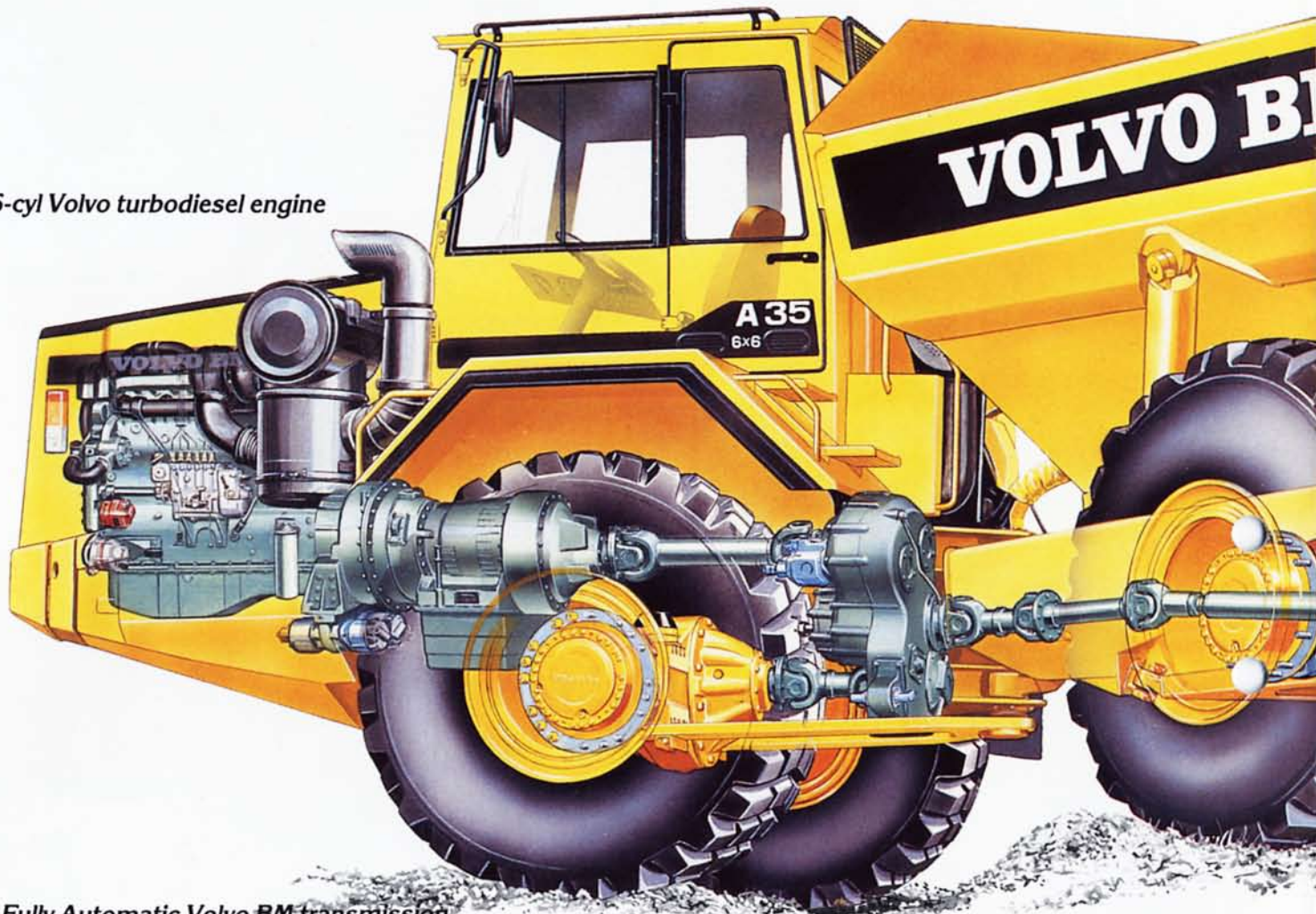


# ***VOLVO BM QUALITY ENSURES HIGH RELIABILITY AND GOOD ECONOMY***

*Easy and precise steering.  
Supplementary steering standard*

*Safe and comfortable cab, positioned  
for optimum visibility and operator  
comfort*

*6-cyl Volvo turbodiesel engine*



*Fully Automatic Volvo BM transmission*

*Diff locks with 100 % locking on all  
driving axles*

*360° rotating frame joint*

*Suspension system with rubber springs  
and double shock absorbers*

*Well-protected drivetrain*

*Longitudinal*

A HIGH TECHNICAL STANDARD AND IN-HOUSE  
MANUFACTURE OF VITAL COMPONENTS ENSURE  
MACHINES WITH A WELL-BALANCED CONSTRUCTION  
AND HIGH QUALITY THROUGHOUT

*Body made of high-grade steel with  
matched payload capacity*



*diff lock*

*Matched disc brakes with guards*

*Volvo BM's all-terrain bogie with  
independent axle suspension*

# HIGH PRODUCTIVITY IN ALL PARTS OF THE WORK CYCLE



## Loading

Articulated steering makes Volvo BM's haulers easy to manoeuvre into the right loading position. And their load profile makes them easy to load.



## Terrain

This is where the articulated hauler makes a real difference. It can choose the shortest path to the dumping site almost without regard to the nature of the surface. Construction and upkeep of roads is often eliminated entirely, which of course means large savings.



ALL OF THESE ADVANTAGES PUT TOGETHER NOT ONLY GIVE YOU GOOD PROFITABILITY, BUT ARE ALSO A GUARANTEE FOR CONTINUOUS HIGH PRODUCTION



#### On any haulroad

The articulated hauler also performs well on any haulroad. The well-matched drivetrain, together with an excellent suspension and good operator comfort, permit high average speeds. The state-of-the-art brake and steering systems give the operator the extra safety required on work sites where the work pace is high.



#### Dumping site

The hauler backs out and sheds the load right where it should be dumped – for example, over the edge of the landfill site. All-wheel drive eliminates the risk of getting stuck. Being able to dump the load in the right place means little or no need for crawler dozers, which further reduces hauling costs.



# **BUILT FOR THE REALLY TOUGH JOBS**

## **Well matched drivetrain with superb characteristics**

Volvo BM's drivetrains for articulated haulers are designed to cope with both the most difficult off-road sections and high speed haulroad work. The transmissions are fully automatic and have closely-spaced gear ratios for optimum utilization of engine power. Differential locks and the way they are used are very important for an off-road hauler. In fact, they can be crucial if continuous production is to be maintained. Volvo BM's axles have 100 % difflocks. The longitudinal differential in the dropbox can also be locked. The differential locks are operated on-the-move to eliminate speed losses when entering difficult sections.

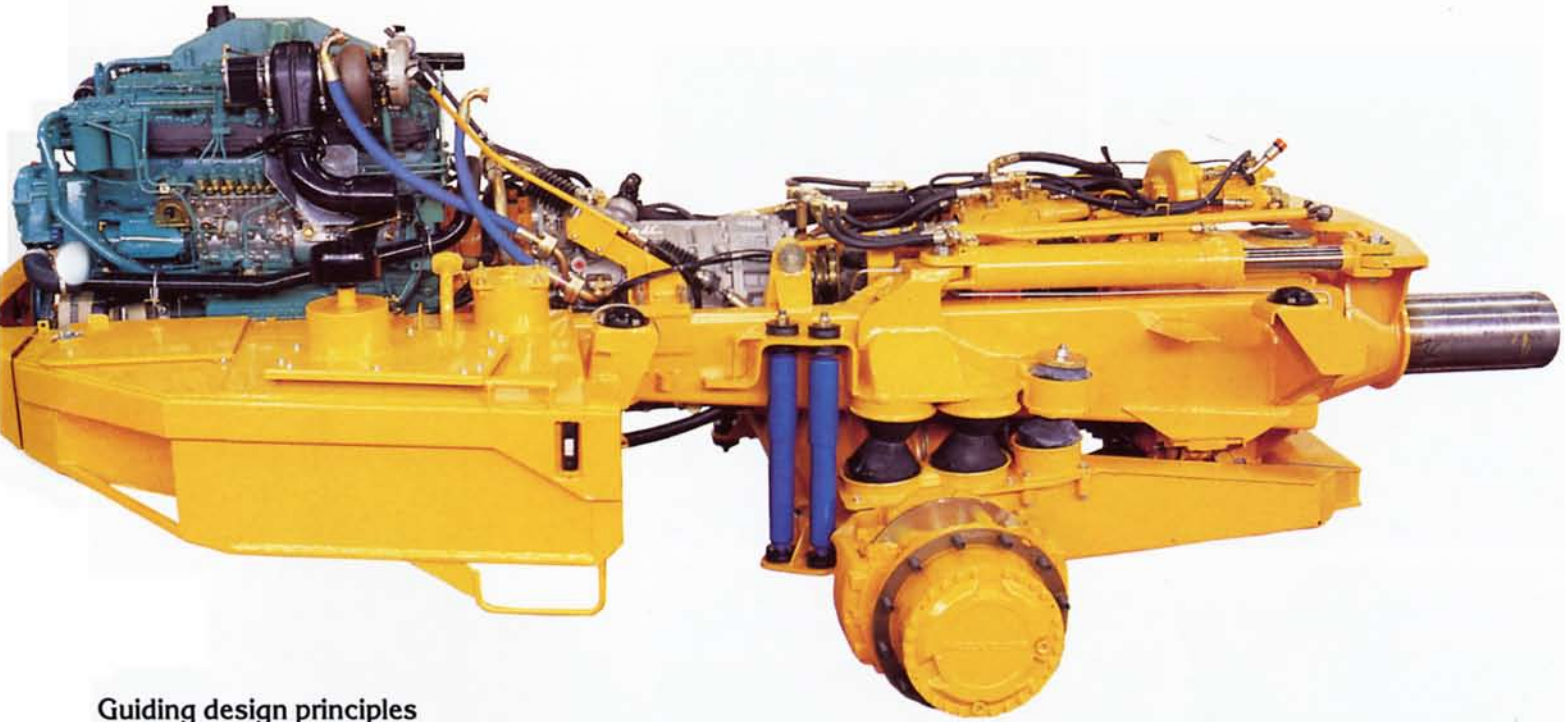
## **Effective suspension permits high average speeds**

Volvo BM's larger and faster models have an advanced suspension system with rubber springs and four double-acting shock absorbers between the front axle and the frame. All cabs are mounted in the centre on rubber pads which enable the operator to remain comfortably and safely isolated from vibrations on rough terrain. All of these features interact to give the operator the comfort he needs to maintain high average speeds, even over haulage sections with very difficult ground conditions.





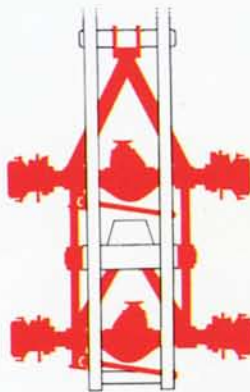
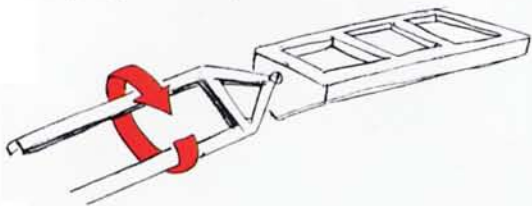
# FUNDAMENTAL VOLVO BM DESIGNS OF TIME-PROVEN EFFECTIVENESS AND RELIABILITY



## Guiding design principles

A fundamental principle for the terrain-negotiating capabilities of Volvo BM Articulated Haulers is the frame joint, which permits 360° rotation between the trailer and tractor units.

The frame joint reduces structural stresses and therefore permits the use of very rigid frame parts. The frame joint is



also the heart of the steering system, which effectively combines high steering forces with nimble manoeuvrability. Finally, it is the unique bogie design that gives Volvo BM Articulated Haulers their unmatched off-road performance. The bogie permits each pair of wheels to have freedom of movement in order to retain good ground contact at all times.

This, combined with good ground clearance, gives the load a "floating" ride over uneven terrain while the wheels hug the ground for constant traction.



# ***PROVEN EFFECTIVE ALL OVER THE WORLD***



# VOLVO BM QUALITY GIVES YOU MACHINES THAT PERFORM DEMANDING TASKS OVER LONG PERIODS WITH LITTLE DOWNTIME



## Production-enhancing comfort

Volvo BM Haulers are more than just haulage machines. They are also workplaces for your operators. Volvo BM cabs are spacious, well-ventilated and quiet. The operator's station is also ergonomically advanced, with very well-arranged and logically designed controls, levers and instruments. The fully automatic shift and the tight, precise steering system complete the picture of a stimulating and efficient workplace.

Volvo BM was a pioneer in building articulated haulers. Our machines are still way ahead of the competition and are making inroads all over the world. They can be seen on construction sites everywhere, large and small, as well as on repair, rebuilding and maintenance jobs.





Volvo BM Haulers can be seen doing heavy off-road hauling work daily all over the world. They are in constant demand within various sectors due to their effectiveness and reliability. The wide range makes it possible to find the right model or the right combination of machines to meet any capacity need.

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