



Volvo BM EL70



VOLVO BM



The loader unit, with its powerful lift and its superb parallel lift-arm action, makes the EL70 a multi-allrounder.

Breakout force and tipping load like a wheel loader.



Precision steering with end-position damping in the steering cylinders makes the EL70 a pleasure to drive.

Automatic Power Shift is available as optional equipment, for extra fuel economy and comfortable driving.

Just how good is the Volvo BM EL70? Let's run a comparison with a wheel loader and an excavator. With rigid front and rear axles and a new oscillating link which permits the two parts of the frame to move $\pm 10^\circ$ relative to each other the EL70 feels just as stable to load with as a wheel loader and just as stable to excavate with as an excavator.

The breakout force, the lift force and the tipping load give the EL70 a capacity that is comparable to that of wheel loaders in the 11-tonne class. The loader unit has Volvo BM's precisely parallel lift-arm action and unmatched bucket angles.

The hydraulic attachment bracket gives you access to the entire range of Volvo BM original attachments—the world's largest choice.



The bucket can be angled a full 114° forward and 51° rearward in the carry position.

A hydraulic bracket with tapered keys makes attachment changing simple and prevents play.

An automatic working brake, as an optional extra, is practical to have in jobs involving frequent repositioning.



An excavator with strength,
capacity and superior
operating economy.



- You can choose among three excavator units:
 - With lateral angulation where great flexibility and accessibility are wanted
 - Without lateral angulation for great reach and deep digging
 - With lateral angulation and telescope to meet exceptional demands as to reach and accessibility

- High stability even without stabilizers, thanks to the oscillating frame joint with rigid front and rear axles. The frame joint can be locked manually or automatically.

Certainly you can appreciate the excavating qualities of the Volvo BM EL70 for the sheer power of the machine. But it has load-sensing dual-circuit hydraulics as well, enabling you to apply that power to the point where it's best needed.

You have manual control to route the flow from the pump to wherever you want. When the boom is idle the available oil flow is automatically routed to the bucket and digging arm. You can slew and raise the boom at the same time with smooth and precise movements.

The dual-circuit hydraulics give fast working cycles without using more energy than the job demands. No oil is needlessly pumped round and round. That saves a lot of fuel. With a fuel tank holding 255 litres we promise you it'll be a long time between refills.



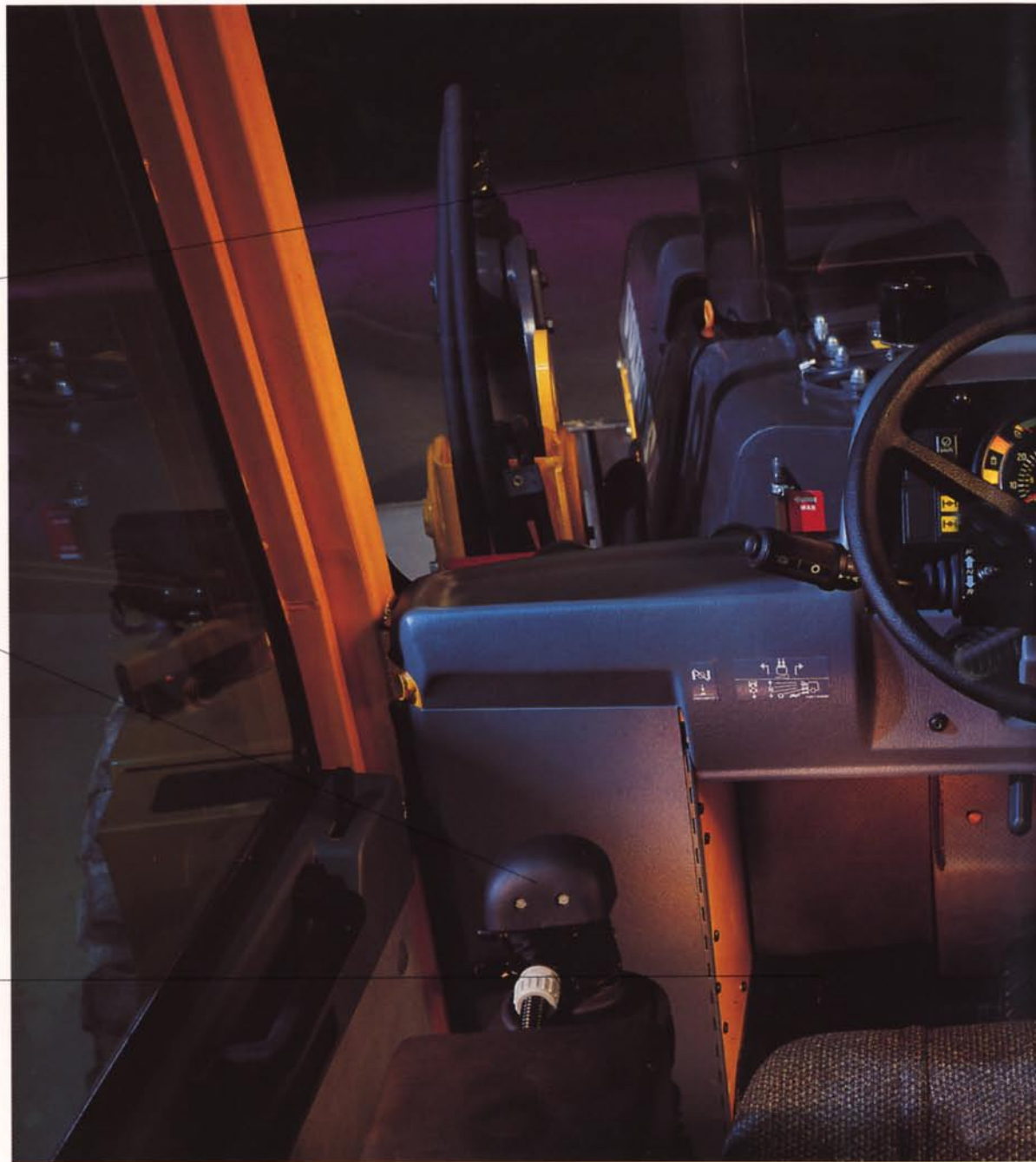
The excavator unit's lateral angulation is completely stepless. You get the best digging angle in all situations.

Panorama windows on all sides give you superb all-round visibility.

The electro-servo control-levers of the deluxe cab are fixed next to the armrests of the seat so as to give a restful driving posture and to take the strain off the operator's back and shoulders.

The ample floor-surface in the spacious cab gives plenty of room for swing around the operator's seat.

There is also space for an instructor's seat.



You do a better job
if you're sitting, seeing,
reaching and feeling fine.



The Care Cab comes in two versions:

- *De luxe cab with electro-servo hydraulics and proportional dual control and lateral angulation.*
- *Comfort cab with mechanical digging and loading controls.*



The excellent all-round visibility makes the operator's job simpler, safer and more exact.

The Care Cab, our comfortable new cab, allows the operator to do his best, day after day. Settle into the comfortable seat, with its lumbar support, and experience for yourself how every control seems to be in just the right place, ergonomically and functionally.

Panorama windows and a roof window give phenomenal all-round-visibility. The side-windows can be opened forward and back respectively. The rear window simply slides in under the roof. Good rearward visibility makes it easy to excavate close to the machine.

The Volvo BM Care Cab is ROPS- and FOPS-approved. Its insulation and its rubber suspension minimize noise and vibration.

The well-dimensioned heating and ventilating system has double filters and 14 swivelling jets. The overpressure in the cab keeps the air cleaner. Air-conditioning is available as optional equipment to complete a perfect working environment.



Thanks to the opening side-windows and the retractable rear window the operator can keep in close touch with personnel working around the machine.



The link bearing in the upper frame joint and the lockable oscillating link of the lower frame joint permit the frames to turn vertically in relation to each other.

The oscillating link can be locked as needed in any position, manually or automatically.

The large wheels, the oscillating link and the favourable bucket angle in the carry position all make it easier to transport a load over rough ground without spillage.

You can get through
and get at it everywhere.



- Thanks to the high ground clearance you can make good use of the excavator-loader's capabilities even in difficult terrain.

The Volvo BM EL70 is a real hunk of muscle, but it's also fantastically manoeuvrable off-road and in confined spaces. Thanks to its compact design, high ground clearance, large wheels, differential locks and articulated steering with an oscillating frame joint joints you can go in and do a good job where other machines can't even move.

The link bearing in the upper frame joint and the lockable oscillating link of the lower frame joint permit the frames to turn vertically in relation to each other.

The EL70 manoeuvres easily even at low engine speeds. A hydrostatic load-sensing steering system gives exact steering without knocks and shocks. A valve in the steering system ensures that it always enjoys priority—a valuable safety feature. The end-position damping of the steering cylinders gently buffers the steering movement before the lock is reached, protecting the machine and the operator.



Stripping topsoil is simple with the EL70. The great traction and the large wheels in combination with a powerful loader unit give you all the resources you need.

With the TDB45B four-cylinder turbo-diesel the EL70 is a fuel-saving bundle of power.



The faster you get there,
the sooner you're finished.



- Differential locks with 100% effect on the front and rear axles enable the EL70 to get around in difficult terrain.

A differential lock for the front axle is available as an optional extra.

The Volvo BM EL70 does the work of both excavator and loader. You're spared two lots of slow transportation and waiting times.

Thanks to the hydraulic attachment bracket the EL70 can switch tasks in a matter of seconds, drawing on the world's broadest range of attachments. The job gets done fast, and you're soon on the way to your next assignment.

The EL70's predecessor, the Volvo BM 6300, is noted for its long life, which is due in no small measure to the components in its drive train. We haven't made any changes there. The Volvo BM HT90 is quite simple the optimal transmission to go with our well-tried and fuel-pinching Volvo BM TD45B engine. The direct-injection four-cylinder turbo-diesel makes the EL70 fast on the highway and a tower of strength off-road. The engine is also available in a low-emission version.



The attachment bracket on the excavator unit comes in two versions, either hydraulically controlled from the cab or mechanically lockable with a key.

Laying optocable.



EL70 with a hydraulic hammer.



Maintenance and repair of gravel roads.



Snow clearance.



The EL70 opens up new business.

The Volvo BM EL70 combines brute strength with high-tech precision. In your hands it becomes an efficient, specialized tool, giving you a new and broader range of capabilities.

With the aid of the Volvo BM family of original attachments—the world's largest—you can do jobs that others aren't up to. That opens up new business opportunities.

If you want to break new ground in untried fields of business, an EL70 is the investment for you.





Linesman's work.



Handling materials on a building site.



Handling materials on a building site.



Replacing railway cross-ties.

Automatic Power Shift is an available option, for fuel-saving and restful driving.

Drop-down side-hatches, an opening front cover and an engine hood lifted by gas-springs give easy service accessibility.

A loader unit with precisely parallel lift-arm action and with high lift and breakout forces makes the EL70 the most efficient excavator-loader on the market.

A hydraulic attachment bracket, well tried on Volvo BM's wheel loaders, gives you access to the market's broadest range of attachments.

Low fuel consumption thanks to the well-balanced drive train and the power-saving, load-sensing hydraulics. The flow-regulated hydraulic system is designed to ensure that only utilized power imposes a load on the engine. The system has two circuits, one with automatic and one with manual flow integration.



Throughgoing quality is easy to look after.

Simple servicing and daily inspection leaves more time for productive work. Lubricating intervals are long at all points. Thanks to our network of service stations you also have assured access to service and fast spare-part deliveries.



- The Care Cab for high standards of safety and comfort. The cab is well insulated and has a low noise level and an effective heating and ventilation plant.
- The panorama windows of the cab give outstandingly good all-round visibility. All side-windows and the rear window are fully opening.
- Readily accessible service points make daily inspection simpler.
- All-hydraulically operated disc brakes, divided into two mutually independent circuits.
- Fully floating half-axes with hub reduction gearing of planetary type.
- Sturdy and manoeuvrable thanks to articulated steering and an oscillating hinge joint.
- Comfortable boarding.

EL 70

Operating weight	t	10,6–13,5
Engine		Volvo BM TD45B
Max. output (33,3 r/s)		
SAE ¹	kW (hp)	84 (114)
DIN ²	kW (hp)	78 (106)
Max. torque (23,3 r/s)		
SAE ¹	Nm	440
DIN ²	Nm	425
Tipping load		
straight	kg	7 370
full turn	kg	6 510

¹ SAE J1349

² DIN 70020/6271

Loader unit

Lift force at ground level	kN	88
at max. height	kN	33
Breakout force	kN	71,9
Bucket sizes	m ³	1,5–3,5

Excavator unit

		1	2	3
Max. reach	mm	6 370	6 940	7 320
Max. digging depth	mm	4 630	5 180	5 640
Breakout force				
at bucket lip	kN	61,0	61,0	61,0

1. Excavator unit with lateral angulation

2. Excavator unit without lateral angulation

3. Excavator unit with lateral angulation and telescopic extension

Bucket sizes	1	90–540
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