

# **VOLVO BM**

L90 COMPACTOR, L160 COMPACTOR



# **VOLVO BM L90 AND L160 COMPACTORS FOR MODERN, EFFICIENT WASTE HANDLING**

The continuing increase in the quantity of waste and the growing realization of the environmental problems it can cause, have led to greater attention being given to cost-effective and environment friendly methods of waste handling.

Despite greater efforts being put into the sorting and reclamation of waste, landfills are still needed for the disposal of non-salvageable material. Sanitary landfills have proved to be an environmentally favourable method of disposing of this waste providing that compaction is effective.

Volvo BM's compactors fulfill this requirement. Like their predecessors, they have been tested under tough practical conditions and are found on many landfill sites all over the world.

The L90 and L160 Compactors are machines with sufficient weight and stability for handling even industrial and building wastes.

## **Cost-effective handling that's kind to the environment**

Effective compacting is a way of extending the life of a sanitary landfill – important, since land is often a scarce resource. This leads to lower total transport costs, since the waste doesn't have to be transported to new, more distant landfills.

Effective compacting reduces the amount of cover material, which leads to savings in materials, machines and time.

Effective compacting is also a prerequisite for methane gas recovery.

## **Total reliability – total economy**

Volvo BM's compactors are built to stand up to the harsh working environment on a sanitary landfill. Systems and components are rugged and reliable and well protected against waste and dust.

A large number of effective mechanical guards guarantee not only reliability but also productivity. Our compactors have guards to protect the brake lines, the lift cylinders, the climate control system's air intake, the battery box, the fuel filler tube, headlights and taillights as well as the center hinge and steering cylinders.

*The buckets have a raised back with see-through grating that prevents the waste from falling over the bucket.*



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**L90 Compactor**

- Engine output:  
SAE J1349 Net 107 kW (145 hp)
  - Operating weight: 15,9 t (35 000 lb)
  - Buckets: 1,9–2,5 m<sup>2</sup> (2,5–3,25 ft<sup>2</sup>)
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*Effective air cleaning: cyclone cleaner, main filter and safety filter – reliable even under the dustiest conditions.*

**L160 Compactor**

- Engine output:  
SAE J1349 Net 185 kW (252 hp)
  - Operating weight: 27,6 t (60 860 lb)
  - Buckets: 3,4–4,0 m<sup>2</sup> (4,4–5,2 ft<sup>2</sup>)
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*Approved ROPS/FOPS cab. Asbestos-approved cab air filter. Pressurized cab air. Sprung seat with built-in plane damper.*

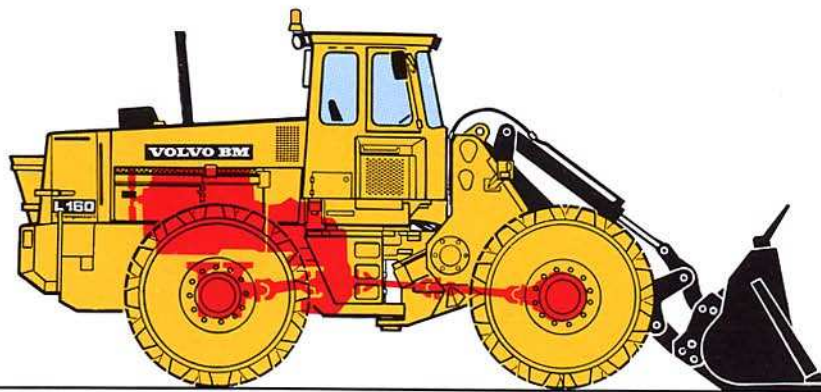
*Electrical distribution box in cab with systematically marked components.*



*Heavy-duty underbody protection plates.*

*Robust frame. Heavy-duty frame joint. Guards for center hinge and steering cylinders. Guards swing out for easy inspection and cleaning.*

*Dependable cooling. High-capacity cooling system and engine with balanced cooling passages. The radiator is easy to clean.*



## Drivetrain that guarantees powerful tractive force

The constant, high tractive force and mobility required for effective compacting are guaranteed by a drivetrain that has been developed to withstand the stresses incurred by waste handling.

The countershaft-type power-shift transmission and the single-stage torque converter are tried-and-tested designs with proven reliability.

The highly "rigid" torque converter provides higher tractive force in the lower speed range.

The large compactor wheels, four-wheel drive and diff locks on the front axle guarantee sure traction and mobility – even when the driving surface is uneven and slippery. Rear axle oscillation makes it possible to negotiate obstacles without any loss of traction.

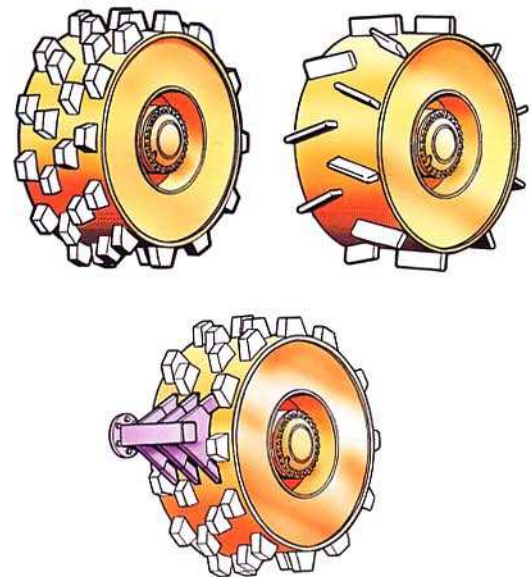
## Productivity guaranteed by chopper or trapezoidal pads

The effectiveness of the compactor is determined to a large extent by the design of the compactor wheels and the pads.

Volvo BM's compactors can be equipped with chopper or trapezoidal pads, depending on the most common type of waste on the work site.

The trapezoidal pads are ideal for compacting both household refuse and cover material. Their life is extended by a hardfacing treatment. The trapezoidal pads can be provided with cleaners to prevent clogging.

The chopper pads are effective in pulverizing and compacting more difficult materials such as wood, concrete, cables and rubber.



## Alternative buckets – capacity-greater flexibility

Volvo BM's compactors can be equipped with either a straight compactor bucket with teeth or a multipurpose bucket.

These buckets have been developed and designed specifically for waste handling and guarantee that our compactors can be used to full capacity in each work operation. Pilot-operated working hydraulics, large breakout and lifting forces and good parallel lift-arm action are some of the factors that increase the effectiveness of our compactors in handling of waste and cover material.

The multipurpose bucket is particularly effective for handling waste containing heavy, bulky or otherwise hard-to-handle material that has to be sorted. The multipurpose bucket can be used as an ordinary bucket, but also as a grapple bucket, a grader blade or a dozer blade.



# PRODUCTIVITY AT EVERY STAGE

The compactor's special features guarantee effective handling at every phase of the waste handling cycle. Compaction becomes a continuous process where several operations are carried out simultaneously.

## **Receiving**

The effective pulverization and disintegration of sacks, packaging materials etc lays the foundation for a more rapid decomposition of the waste. This is where such machine features as the powerful, effective compactor wheels and constant high tractive force make the difference.



## **Sorting**

Scrap metal, domestic appliances and other salvagable material can easily be sorted out with the multipurpose bucket.



## **Spreading – compacting**

Levelling-out and further pulverization, as well as compaction to the required standard, are performed simply and smoothly throughout the work cycle.



## **Effective covering**

The compactor's load-hauling capabilities enables cover materials to be efficiently and easily applied at the end of each working day. This has a number of benefits:

- the fire hazard is reduced.
- the spontaneous processes that generate gas and cause harmful leaching that can pollute the air, soil and ground water are retarded.
- the availability of food and protection for disease-carrying vermin is reduced.

# COMFORT, SAFETY AND SIMPLICITY OF SERVICE BOOST PRODUCTIVITY

## Adapted to operators and tasks

The L90 and L160 Compactors have been developed in line with our comfort philosophy: the better the machine is designed for the tasks it will have to perform and the surroundings in which it will operate the less will be the stress placed on the operator. This is of great importance – since compaction can be a complex task that makes heavy demands on the operator.

A natural part of our total comfort philosophy is the ergonomic design of the well-protected operator's station: the good all round visibility, the low noise level, the climate control system and the efficient air filtration system.

Now we are going even further in setting a whole new standard of comfort with the introduction of optional lever steering. The folding left-hand armrest contains a small lever that can be moved to the right or left with the fingertips to steer the machine. The deflection of the lever is proportional to the steering speed, enabling the machine to be maneuvered with very great precision. The same armrest also contains buttons for forward/reverse and for selecting 1st or 2nd gear.



## Simplicity of servicing

A Volvo BM compactor incorporates features that minimise down time and allow ease of servicing. All parts of the machine are protected from the waste and contaminants present on the worksite but at the same time all vital functions and components are easily accessible for service and maintenance.

The operator's efficiency is further enhanced by well thought-out, tried-and-tested features that guarantee ease of service. These include fold-down access panels and radiator grilles, as well as quick-connect test ports that permit pressure measurement in all vital systems.



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Under our policy of continuous product improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

Courtesy of Machine.Market

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