

Why Vertical Lift Modules Are a Competitive Advantage for Manufacturers?



A popular storage solution in a variety of warehouse environments and industries.

A **vertical lift module** (VLM) is an enclosed storage system made up of vertical stacks of trays connected by a centralized elevator that runs vertically between them. The elevator reacts to commands and can fetch and transport trays to the operators automatically, resulting in a real goods-to-person pick solution.

Vertical lift modules are a popular storage option in a variety of warehouse locations and sectors due to their combination of technology and design. VLMs can provide a competitive advantage in today's demanding manufacturing environment by expanding available floor space and maximising storage density, as well as boosting efficiency and lowering labour costs.

Vertical Lift Modules Boosts Available Floor Space

Vertical lift modules take up very little space on the warehouse floor. They are higher than they are wide, which maximises overhead air space while also freeing up important floor space for other uses. VLMs can also be scaled and capacity graded to increase storage density. As a result, Vertical Carousels Australia's VLMs take up 90 per cent less room on the floor than traditional racking.

Vertical Lift Modules Speeds Up Picking

An operator directs the motorised elevator that runs between the stacks of trays in a [vertical lift module](#) to identify and retrieve specific trays. Items stored in a Vertical Lift Module can often be given to the operator in under 45 seconds; however, individual throughput rates can

vary depending on VLM design and application. With the use of a pod of machines, VLMs can achieve throughputs of up to 500 LPH.

A **vertical lift module's** shelves may be adjusted to fit various product heights, enhancing storage density and providing slotting choices for improved SKU management. Furthermore, multi-column systems can be configured to allow up to six operators to retrieve products from the same machine at the same time, reducing downtime and waiting time.

Vertical Lift Modules Improves Pick Accuracy

Vertical lift modules are intelligent storage systems that use technology to increase picking accuracy, save wasted operator labour, and boost customer happiness. Some multi-column VLMs include a simple and intuitive visual picking solution that illuminates the specific cell in which an item is kept and directs the operator to the correct location on the tray.


Vertical Lift Modules Have Ergonomic Advantages

Operators no longer have to bend or reach for goods thanks to the **vertical lift modules**. They no longer need to walk the warehouse floor or use a ladder or man lift machinery to access products housed on upper shelves since **vertical lift modules** offer objects in a constant location. VLMs can also change the height of the tray delivery to accommodate different operators. Employee satisfaction and warehouse productivity rise as a result of ergonomic advantages like these.

Reference: <https://www.verticalcarouselsaustralia.com.au/why-vertical-lift-modules-are-a-competitive-advantage-for-manufacturers/>

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