

Vertical Lift Module and its Benefits as a Warehouse Storage Solution



Why most warehouses are now using Vertical Lift Modules?

Today's businesses are making progress towards full automation, and with that comes technologically advanced storage solutions like the **vertical lift module**. The VLM allows you to maximise your storage space while increasing the productivity of your operation. VLMs can be optimised or customised as per preference to make them useful in a wide range of applications.

Purpose of a Vertical Lift Module

A **vertical lift module** (VLM) substantially eliminates walk and search time by delivering stored materials to the operator. The VLM is a closed system with two columns of trays in the centre and an inserter/extractor in the middle. With a single button press, the inserter/extractor locates and retrieves stored trays from the front and rear of the system. The operator then receives the selected items at the pick window.

Why More Warehouses Are using Vertical Lift Module?

Many warehouses are using a VLM because it can increase productivity by two to three times when used appropriately. Not only that, but they come in a variety of heights and widths to suit the needs of various-sized businesses. A **vertical lift module** helps warehouses to make the most of their space by utilising the height from floor to ceiling. When compared to generic shelving choices, optimally placing trays in positions allows the system to save up to 85 per cent

of space. Businesses can grow their operations without needing to open several premises by using a VLM.

Using Vertical Lift Module in Warehouse: 5 Key Benefits

- **Utilising Floor Space**

By utilising vertical space in your facilities, this **warehouse storage** system reduces wasted floor space. To maximise the storage density all the way to the ceiling, VLMs automatically optimises the tray height. As a result, storing resources becomes easy with a small footprint and product height calculation. This allows you to reclaim unused floor space and put it to better use, such as installing new equipment or boosting your warehouse's inventory without having to relocate.

- **Boost in Average Pick Rates**

A VLM can substantially boost your productivity and achieve 99.9% accuracy with pick-to-light technology. The pick window's position lights and transaction information centre (TIC) tell the operator of the pick window's location, amount, part number, and description. Above all, using batch picking VLMs can choose multiple orders at the same time. When compared to picking from a normal shelf, this allows for substantially faster pick rates.

- **User-level Access with secured Storage**

When storing a big number of objects or valuable items, security is critical. Vertical Lift Modules are programmed to allow only authorised personnel to access specific trays. Thus, a VLM protects your precious products from being lost, damaged or stolen. To better protect your merchandise from theft and misplacement, VLMs combine badge scanners, EKS, and RFID technologies to provide user-authenticated access.

- **Ergonomic Storage Space**

The VLM is the most adaptable storage option available. The dynamic shelf height of the **vertical lift module** varies depending on the size of the item. Traditional shelving, on the other hand, has only one shelf height throughout the unit, making it impossible to fit both small and large items. The VLM is your best option if you want to maximize your storage while minimising wasted space.

- **Better Safety Features**

On-the-job injury is a major issue in warehouses, as these settings have a lot of moving elements that can quickly become dangerous if not taken care of properly. This **warehouse storage** offers improved safety features like light curtains and shutter doors, making them far

safer than typical storage solutions. A safe storage solution easily prevents workplace injuries. Thus making the workspace safe for operations.

Industries That Benefits From a Vertical Lift Module

Vertical Lift Modules can be customised to fit a variety of applications and individual requirements. Inventories like small components, food, tools and medical supplies can be easily stored on a VLM. In reality, deploying a VLM can assist any company that wants to improve its structure and lower its storage footprint. Vertical Carousel Australia would be happy to help you in understanding, selecting and installing the best Vertical Lift Module you need.

Here is a list of industries that can benefit from a VLM to demonstrate that it is advantageous in practically every industrial application:

- Aerospace
- Retail
- Technology
- Car Dealerships
- Military
- Medical Manufacturing


Is Vertical Lift Module Best for “Your” Business?

As with every rule, there are certain exceptions, and some businesses may not profit from a VLM. When considering whether or not to invest in this storage option, you should consider a number of criteria, including the height of your warehouse ceiling, the size of your products, the turnaround time of your inventory, and the possible ROI. If your ceilings are low, you deal with exceptionally large items, you have a slow inventory turnaround, or your ROI shows that you will never recoup your investment, you should reconsider. You might wish to think about a storage option other than the [vertical lift module](#).

Reference: <https://www.verticalcarouselsaustralia.com.au/vertical-lift-module-and-its-benefits-as-a-warehouse-storage-solution/>

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