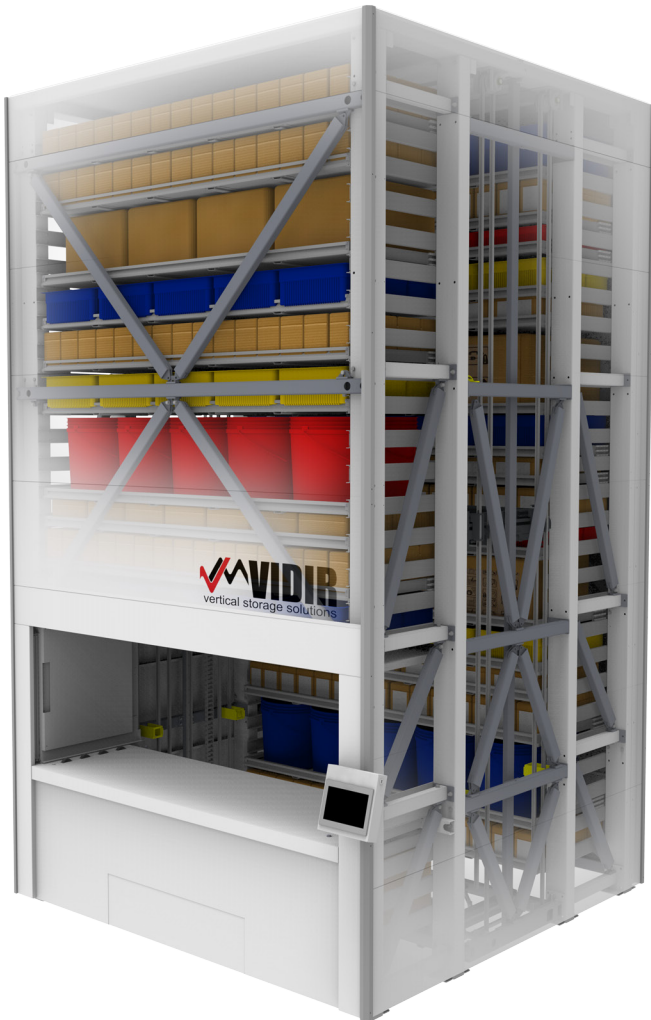


BUYER'S GUIDE



Vertical Lift Module



Vertical Carousels

← A SIDE BY SIDE COMPARISON →

Increase Safety
Boost Productivity

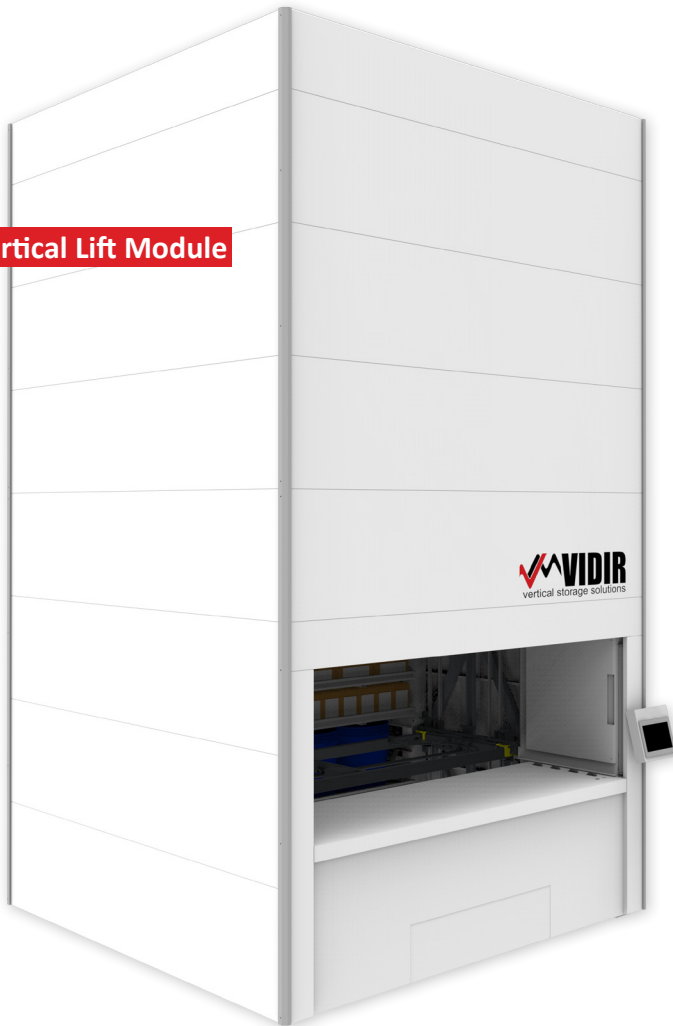
Reduce Labor Costs
Maximize Storage

Improve Inventory
Small Footprint

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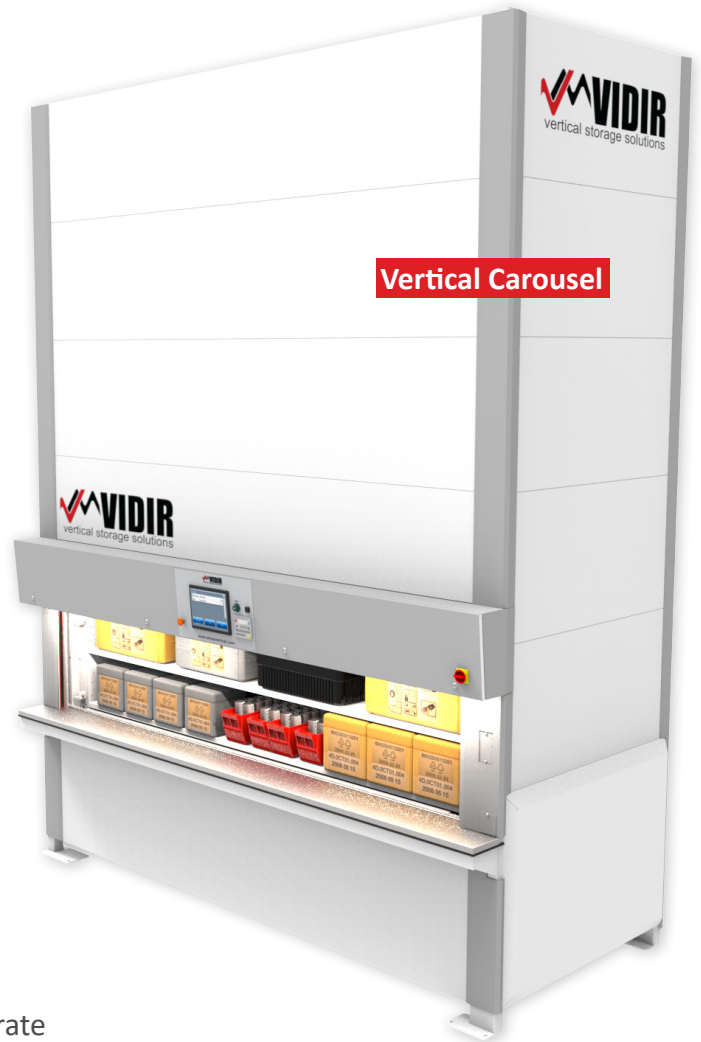
Vertical Lift Module



Which Machine Fits Your Needs Best?

Looking to switch to vertical storage, but you're not sure where to start? The Vidir Buyer's Guide will help you see the differences between Vertical Lift Modules and Vertical Carousels and help you decide which one suits your needs best.

Vertical Carousel



Benefits of Vertical Storage

Increase Safety

Operator receives material at an ergonomic height, reducing climbing, lifting, stretching, and bending.

Boost Productivity

Centralized inventory improves retrieval times and reduces downtime.

Reduce Labor Costs

Single person operation and improved process.

Maximize Storage

Maximize your floor space by fully utilizing overhead space.

Improve Inventory

Track, optimize and integrate with ERP systems.

Small Footprint

Reduce storage footprint by up to 85%.

Increase Safety
Boost Productivity

Reduce Labor Costs
Maximize Storage

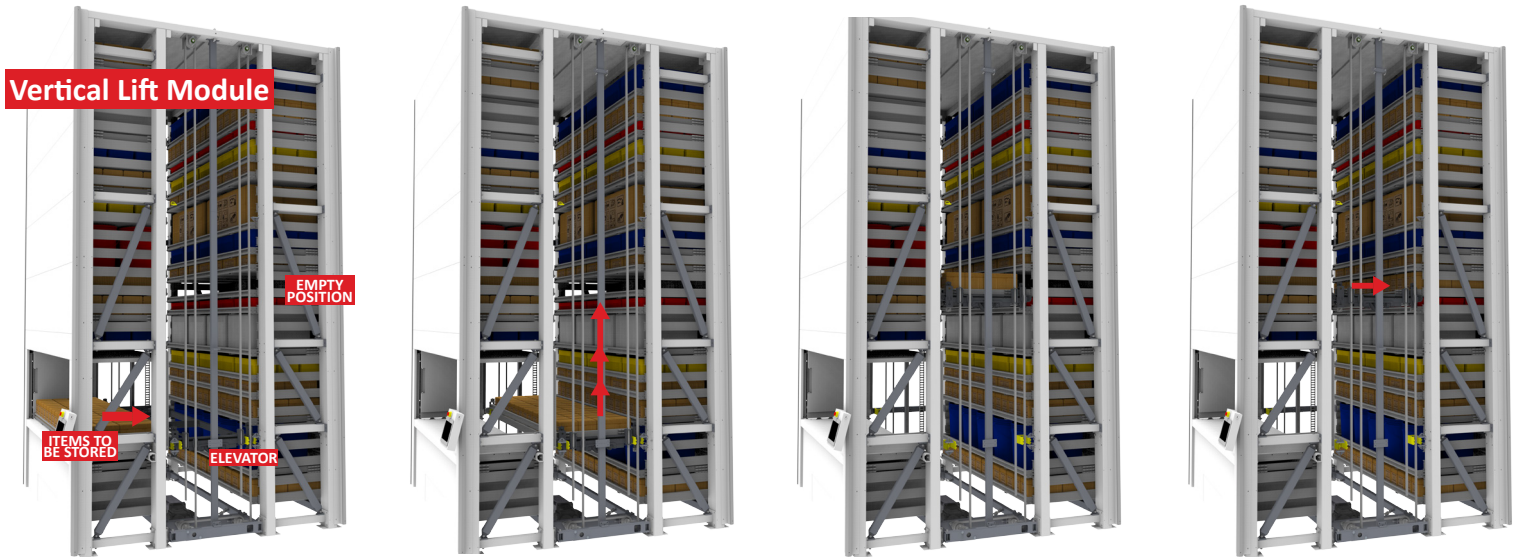
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How Do They Work?

The **Vidir Vertical Lift Module** (or VLM) is Vidir's revolutionary new automated storage and retrieval system that provides smart, adaptable inventory management to maximize density and further increase productivity. Making use of 2 tray towers, one in front and one in back, along with a center elevator, trays are extracted and presented quickly, efficiently, and at an ergonomic height for the operator. With item height detection, subsequent trays are stored just above the previous item, automatically making optimal use of your cubic foot space. Storing the trays in vertical towers allows for a minimal footprint, saving floor space up to 85%, and keeping your employees safe.



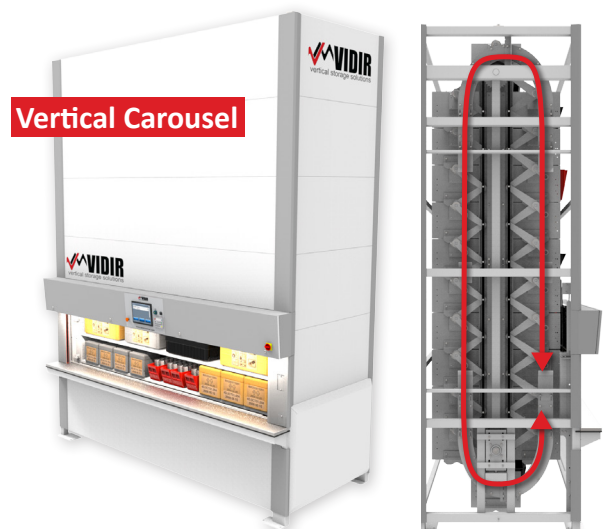
Operator loads items to be stored on the tray in front access point and uses touchscreen HMI to store items. As the tray gets pulled onto the elevator height sensors scan the items and detects height needed for storage.

Machine determines most efficient available space for the tray and the elevator moves up or down to correct position.

Elevator stops in front of correct position.

Elevator slides tray into position.

The **Vidir Pan Carousel** is an automated vertical storage and retrieval system (AS/RS) that improves productivity, saves space, and uses sound ergonomic principles to increase safety. Robust carriers rotate up and down to deliver items to the operator at a comfortable height. Each carrier nests tightly with the one above and below for maximum use of the cubic space within the carousel. Vidir's carousels are programmed to rotate the shortest possible travel time to retrieve either a single item or an entire pick list, increasing picking speeds by up to two-thirds.



Increase Safety
Boost Productivity

Reduce Labor Costs
Maximize Storage

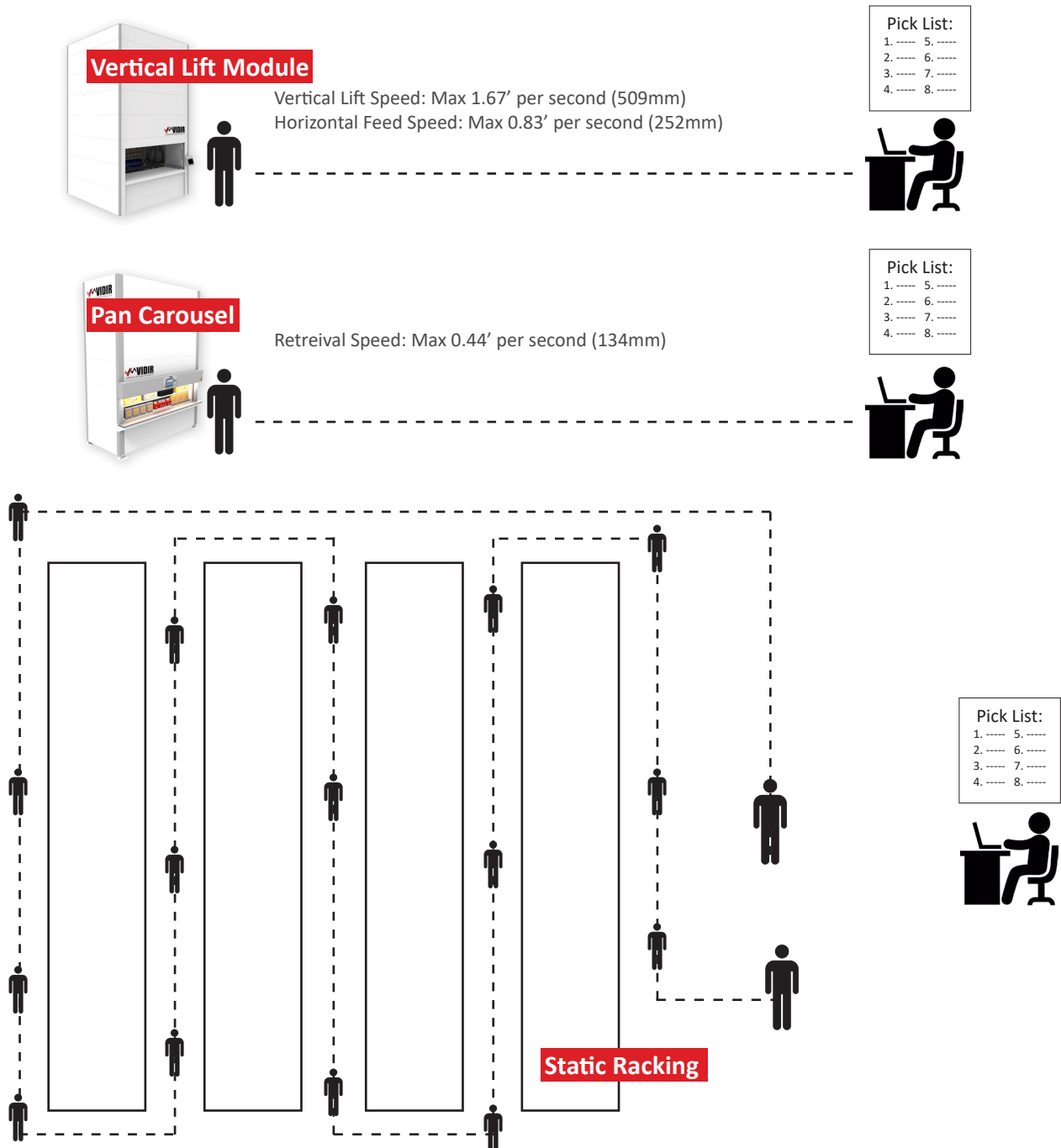
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Retrieval Times

The Vidir VLM and Pan Carousel operate under the product to person principle which ensures that the operator no longer concerns themselves with search and retrieval functions. The machine increases the effectiveness of order processing through a combination of quick retrieval times and increased picking accuracy. Each machine can be integrated with order processing software that will not only track your inventory but process pick lists which provides fast, reliable, and worry free retrieval. Implementation of the product to person principle eliminates wasteful and harmful steps for stocking and retrieving parts.



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Load Capacities

Vertical Lift Module



Machine Load Capacity: Up to 132,000lbs (60,000kg)

Tray Capacity: 600 lbs | 1000 lbs (272kg | 454kg)

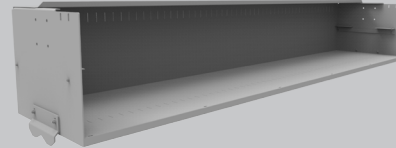
Tray Size: 3.5" Pitch (89mm)

32.5" Depth (825mm)

96.5" Width (2,451mm)

- Items can vary in size, up to 30" (762mm) in height.
- Trays stored 1" (25mm) above tallest item on previous tray, automatically detected by sensors.
- Entire tray can be removed from machine with optional Transport Tray for convenience.
- Tray dividers available.
- No imbalance.

Vertical Carousel



Machine Load Capacity: Max 39,000 lbs (17,690kg)

Carrier Capacity: Max 2500 lbs (1,134kg)

- Ideal for items all fairly uniform in size.
- Carriers can not be removed from machine, items removed individually.
- Intermediate shelves and dividers available.
- Unit Imbalance: 2,990lbs (1,356kg)

CARRIER	HEIGHT	DEPTH	WIDTH
P1812-750	12" (457 mm)	18" (457 mm)	72" - 119" (1829 mm - 3023 mm)
P2418-750	18" (457 mm)	24" (610 mm)	72" - 119" (1829 mm - 3023 mm)
P1913-1100	13" (330 mm)	19" (483 mm)	72" - 119" (1829 mm - 3023 mm)
P2418-950	18" (483 mm)	24" (610 mm)	72" - 119" (1829 mm - 3023 mm)
P1912-1600	12" (305 mm)	19" (483 mm)	72" - 119" (1829 mm - 3023 mm)
P2417-1300	17" (457 mm)	24" (610 mm)	72" - 119" (1829 mm - 3023 mm)



85%
save up to

Storing trays in 2 vertical towers allows for a minimal footprint. The Vidir VLM saves floor space up to 85% by increasing storage density and using available vertical space, previously inaccessible. Automatic height sensing allows for variable tray spacing maximizing the available space.

A standard VLM is 9'4" W x 9'6.5" D (2,845mm W x 2,908mm D).

Storage Footprint



70%
save up to

The Pan Carousel can increase your available storage capacity by up to 70% by increasing storage density and utilizing previously inaccessible vertical space. The increased density is accomplished through a series of interchangeable dividers and removable intermediary shelves that allow you to easily reconfigure the carousel interior to a diverse range of SKU's.

Vidir's standard Pan Carousel sizing has various widths and depths.

Standard Widths: 12' 1" (3683mm) **Standard Depths:** 5' 8" (1728mm)
10' 2" (3099mm) 6' 0" (1829mm)
8' 2" (2490mm) 6' 10" (2083mm)

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Boost Productivity**

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Software

Vidir's inventory management software supports material Picking and Stocking using product identification via serial number, barcode number, or part description. Track the transaction history, and run reports for real time inventory counts. Using pick lists, items are returned via the shortest path (as opposed to sequentially on the list). Import picklists to MSSQL databases. Use barcode scanners to pick or stock items.

Vidir Software Features*

Material Master Data:

- Material Item No.
- Material Description
- UOM Descriptor (EA, Case, Etc.)
- Barcode/RFID
- Controlled Inventory
- FIFO Stock Rotation
- LIFO Stock Rotation

Miscellaneous:

- Add/Edit/Delete Users
- User Controlled Access
- Manage User Rights
- Supports SSRS Reporting
- Import Inventory Database
- Multiple Materials per Position
- Touch Responsive User Interface
- Requires Windows OS

Stock Locations:

- Supports Multiple Devices
- Warehouse Zone Support
- Integrated Pick Light Support
- Bin Support
- Multiple Materials per Position
- Max stock per bin

Pick, Put, and Return Material:

- Manual Pick
- Manual Stock
- Supports Pick Lists
- Supports Stock Lists
- Dynamic Material Search
- Warehouse Zone Printer

Vertical Lift Module

- Advanced inventory control software and user interface
- REST API for ERP connectivity
- Remote diagnostics included to address issues quickly or to prepare a technician prior to visiting
- Tray control mode or inventory control mode are both available for flexibility of use
- Tray removal or addition is automatically detected

Vertical Carousel

- Interface with easy to use touchscreen controls
- SOAP API
- Can manage additional storage locations outside of the carousel

Login



Menu



Options

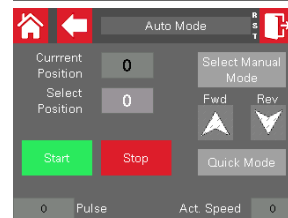
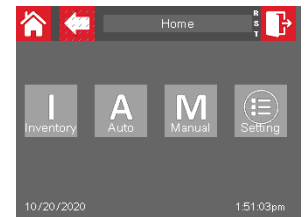
Manual Mode



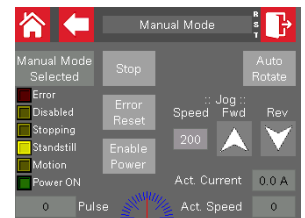
Login



Menu



Auto Mode



Manual Mode

Increase Safety
Boost Productivity

Reduce Labor Costs
Maximize Storage

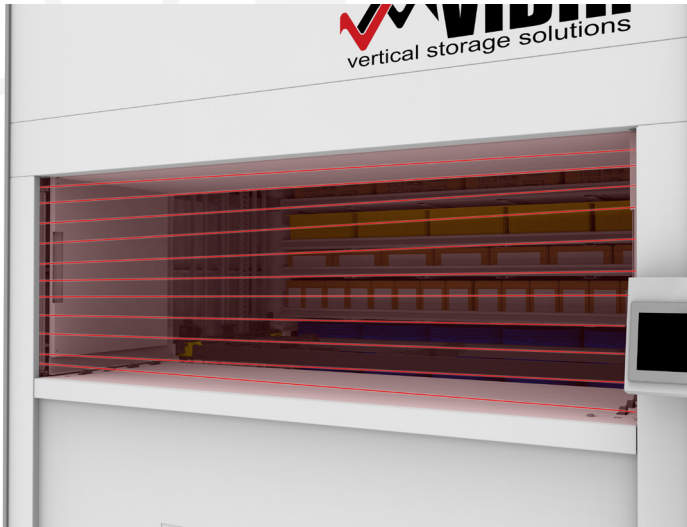
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Health & Safety

All Vidir VLM and Pan Carousels come equipped with the latest photoelectric safety light curtains that meet the most stringent health and safety regulations. Light curtains come standard across the front of the access opening. Safety light curtains will sense an object or person and immediately stop the operation of the machine.



Both the VLM and the Pan Carousel access openings are at a comfortable, ergonomic height. Implementing the product to person principle, all parts are delivered to the operator. No bending, walking, climbing or lifting needed.



Height

The VLM and the Pan Carousel all come in standard sizes up to 28' (8534 mm).



The VLM starts at 9' 10" (2997mm) up to 28' (8534mm) in 7" (178mm) increments.

The Pan Carousel starts at 8' 1" (2464mm) up to 28' (8534mm). Exact heights available depend on model and carrier dimensions.



Increase Safety
Boost Productivity

Reduce Labor Costs
Maximize Storage

Improve Inventory
Small Footprint

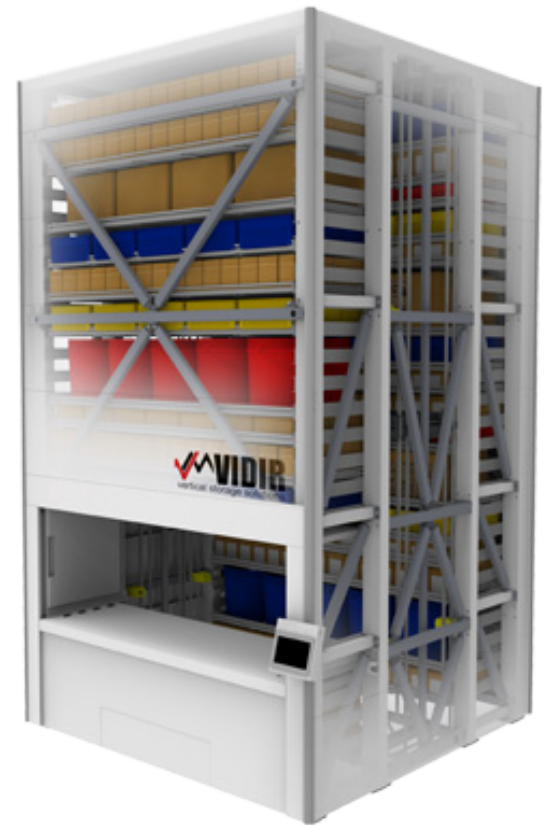
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Machine Specifications

VLM

TECHNICAL SPECIFICATIONS	IMPERIAL	METRIC
UNIT SPECIFICATIONS		
Height	standard up to 28'	standard up to 8.53 m
Depth	114.5"	2908 mm
Width	112"	2845 mm
TRAY SPECIFICATIONS		
Pitch	3.5"	88.9 mm
Depth	32.5"	826 mm
Width	96.5"	2451 mm
Max Storage Height	30"	762 mm
Tray Storage Increment	1.2"	30 mm
CAPACITY SPECIFICATIONS		
Load Capacity	up to 132,000lbs	up to 60,000 kg
Load per Tray	600lbs 1000lbs	272 kg 454 kg



PAN CAROUSEL

TECHNICAL SPECIFICATIONS	IMPERIAL	METRIC
UNIT SPECIFICATIONS		
Height	max. 28'	max. 8,534 mm
Depth	6' 0" / 6' 10"	1,828 / 2,082 mm
Width	8' 0" - 12' 3"	2,438 - 3,734 mm
CARRIER SPECIFICATIONS		
Height	12" - 18"	304 / 457 mm
Depth	18" - 24"	457 / 609 mm
Width	71" - 119"	1,803 - 3,022 mm
CAPACITY SPECIFICATIONS		
Load Capacity	max. 39,000 lbs.	max. 17,690 kg
Load per Carrier	max. 2,500 lbs.	max. 1,134 kg
Unit Imbalance	2,990 lbs.	1,357 kg
Retrieval Speed	22 / 26.5 ft/min	6,706 / 8,077 mm/min

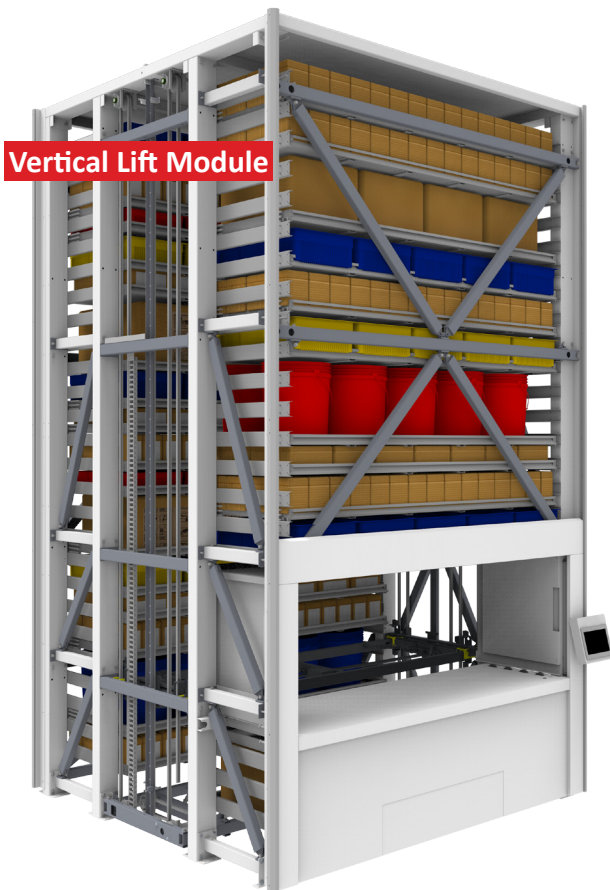
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Vertical Lift Module

Which One Do You Need?

When choosing your AS/AR hardware, there are some important points to think through regarding your items, how you want to make use of your space, and the operation of each of our solutions. Below are some key final factors to consider:

VLM

- ✓ With Item height detection, the VLM automatically makes the best use of available cubic foot space.
- ✓ Best choice for a wide variety of product sizes and weights.
- ✓ Ideal choice for multiple units or if there are plans for expansion.
- ✓ Optimized inventory control and on board remote diagnostics.
- ✓ No chance of an imbalanced load.
- ✓ Best use of space over 18' (5,486mm) height.
- ✓ Add or remove trays as needed.



Vertical Carousel

PAN CAROUSEL

- ✓ Ideal for smaller light weight items of uniform size
- ✓ Can be used with auto-retrieval (retrieve by carrier #) or inventory control
- ✓ Excellent parts security, and manual rotation if required.
- ✓ Ideal for ceiling height under 18' (5,486mm).

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