

AUTOMATED STORAGE SYSTEMS FOR PARTS



msk

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1-844-675-2262

info@mskcanada.com

PAN CAROUSEL

VIDIR
vertical storage solutions



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**VERTICAL
STORAGE
UTILIZES
UNUSED
OVERHEAD
SPACE**

**MADE IN
NORTH
AMERICA**

PAN CAROUSEL



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 (shelves) 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.

The Pan Carousel is built to order to fully utilize overhead space, freeing up valuable square footage that can be used for other purposes.

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.

Simple and intuitive controls and software options interface with ERP or WMS systems to provide a fully integrated and secure inventory management solution.

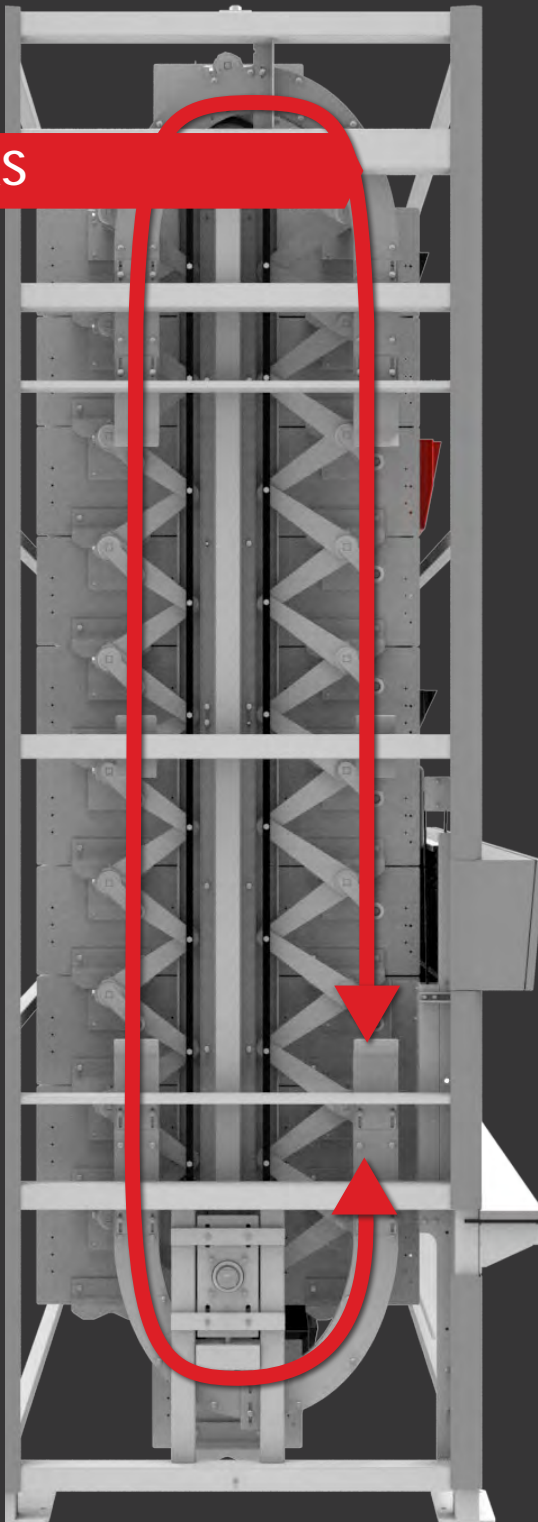
- *Recovers an average of 80% of your floor space*
- *Operates and tracks inventory interdependently or integrates with enterprise level ERP systems*
- *Increases workplace safety*
- *Improves productivity with more efficient SKU picking*
- *Improves security with optional gates, password protection, and access logs*
- *Access to stored products at all times with the emergency rotation feature*
- *Flexible carrier configuration options to meet changing inventory needs*

VIDIR
vertical storage solutions

Save Floor Space
Increase Inventory Accuracy
Improve Security
Increase Workplace Safety



HOW IT WORKS



The **Pan Carousel** is designed around the product to person principle, which ensures that the operators no longer concern themselves with search and retrieval functions, but allow the vertical carousel to retrieve items regardless of their location. Carriers are connected to the chain at two separate points allowing the carriers to rotate at the apex and remain 'nested' while vertical to provide maximum space utilization within the carousel.

The selected carrier will take the shortest possible path to the operator, ensuring quick retrieval times for both single and batch picking. Strategically grouping parts by location will speed picking further.

ROBUST
CONSTRUCTION
TECHNIQUES &
MATERIALS

WORLDWIDE
SUPPORT

VIDIR
vertical storage solutions

AUTO RETRIEVAL

DESIRED
CURRENT

7
7

?
HELP

STOP



BACK

DEL

MANUALLY JOG



START



ENTER

1

2

3

4

5

6

7

8

9

0

FEATURES

Carrier Options

Dynamic internal carrier configurations so you can customize each carrier to match your product.

Organize Inventory

by centralizing it to one location, reducing your labour requirement.

Optional Touch Screen

Provides real time inventory control. Pick individual items or entire lists.

Safety Light Curtain

Automatically stops carousel rotation when breached.

Emergency Stop

Shuts down entire carousel in case of emergency.

Emergency Rotation

Drill Drive allows for product retrieval in the case of power outage.

Up to 879ft³ of Storage

Automated vertical storage for up to 879ft³ with standard models.

Overhead Space

Fully maximizes overhead space for storage to recover valuable floor space.

Nested Shelving

Designed to ensure the highest possible storage density.

Centralized Controls

result in improved efficiencies and less travel for operators making multiple picks.

Ergonomic Work Bench

Increases safety. No more reaching from ladders, or crouching on dusty floors to retrieve or count parts.



INDUSTRY
LEADING
UP-TIME

PAN CAROUSEL SPECIFICATIONS

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

CARRIER

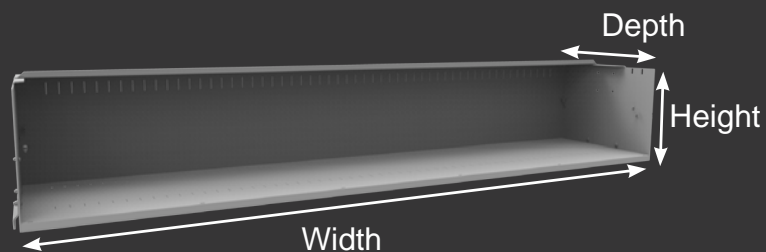
Whether storing products directly in the carrier, using standard storage containers, or application specific containers and bins, the Pan Carousel's flexible carrier design can be optimized to best utilize the available cubic feet within the carousel.

Vidir's carriers come in five standard sizes with up to 30 ft³ of available storage per carrier.* Up to 2,500 lbs can be loaded per carrier to a total of 39,000 per carousel.

The carriers can be sub-divided using removable dividers and intermediate shelves to create smaller compartments and more surface area for smaller SKU applications. Carrier lips are available in 2" and 6" sizes ensuring loose items remain securely in-place during rotation. Additionally, bins and totes can be used as needed to create a custom high density storage system that is application specific.

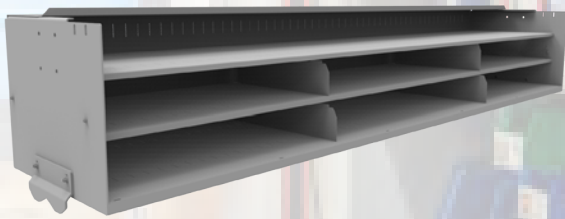
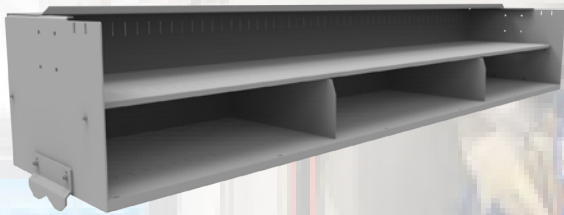
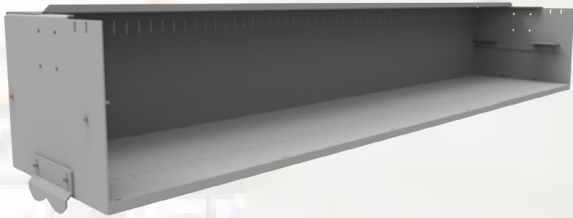
**Depending on carrier width.*

5 CARRIER SIZES AVAILABLE



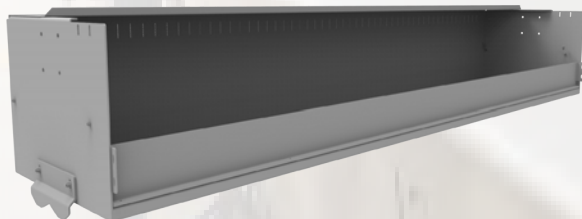
CARRIER	HEIGHT	DEPTH	WIDTH	TOTAL LOAD CAPACITY
P1812-750	12" (457 mm)	18" (457 mm)	72" - 119" (1829 mm - 3023 mm)	750 lbs (340 kg)
P2418-750	18" (457 mm)	24" (610 mm)	72" - 119" (1829 mm - 3023 mm)	750 lbs (340 kg)
P1913-1100	13" (330 mm)	19" (483 mm)	72" - 119" (1829 mm - 3023 mm)	1100 lbs - 2200 lbs (499 kg - 998 kg)
P2418-950	18" (483 mm)	24" (610 mm)	72" - 119" (1829 mm - 3023 mm)	950 lbs - 2200 lbs (431 kg - 998 kg)
P1912-1600	12" (305 mm)	19" (483 mm)	72" - 119" (1829 mm - 3023 mm)	1600 lbs - 2500 lbs (726 kg - 1134 kg)
P2417-1300	17" (457 mm)	24" (610 mm)	72" - 119" (1829 mm - 3023 mm)	1300 lbs - 2500 lbs (590 kg - 1134 kg)

EXAMPLE CARRIER CONFIGURATIONS



CARRIER LIP OPTIONS

Carrier lips are available in 2" and 6" sizes ensuring items remain securely in place during rotation. A Vidir sales representative can recommend appropriate bin sizes.



// We are seeing improvements in inventory accuracy. The Pan Carousels are driving less mis-picks. The addition of the carousels has also allowed us to reduce our labor requirement. //

– Marty Meyer
Operations Manager
Viking Pump

OPTIONS & ACCESSORIES



BI-PARTING SECURITY GATE

A lockable bi-parting security gate prevents unauthorized access.



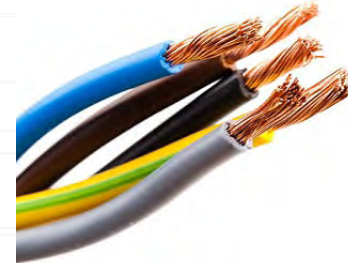
PREVENTATIVE MAINTENANCE

An annual inspection program designed to extend the life of your carousel.



RAL COLOR CHANGE

RAL color changes are available.



ELECTRICAL CHANGE

Vidir has installed thousands of carousels worldwide with various electrical requirements and configurations. Please inquire for your local specifications.



INTEGRATED TOUCHSCREEN CONTROLLER

The industrial integrated touchscreen controller provides point of use access to advanced software and inventory management.



SHELF BINS & ACCESSORIES

Bins and accessories to help organize and control inventory. 4 different styles and 33 sizes in various colors available.



PICK-TO- LIGHT

Horizontal 32 LED pick-to-light system that improves both picking accuracy and speed.



BAR CODE SCANNERS

Bar code functionality can be integrated with clients inventory management system.

Configure

Device

Warehouse

INVENTORY MANAGEMENT SOLUTIONS

Vidir has developed numerous inventory management features to integrate seamlessly with Vidir AS/AR systems. With features available such as bar coding, pick-to-light, and in-house software suites Vidir has made a product line that is industry 4.0 ready and scalable to future demands.

Should you already be using a Warehouse Management system to track your parts, then Vidir's Inventory Control software comes with Vidir's Application Program Interface (API) for seamless integration into your current parts management system. This allows you to set the behavior's of the carousel and how it interacts with the world around it, moving you towards Industry 4.0.

Pick

Stock

Inventory

INVENTORY CONTROL SOFTWARE

The Vidir Inventory Control (VIC) is a software suite built for use on any computer running Windows as well as being optimized for use on tablets and other industrial touch screens to both operate and track inventory throughout Vidir's entire line of automated storage systems.

This solution can range from a complete standalone package to hardware integration with clients' existing ERP, warehouse management and inventory software.

Part Number	Description
409-0018	DPDT 8 Pin Octal Power Relay

Buttons: Configure, Device, Warehouse, Pick, Stock, Inventory, Operate, Logout, Exit

INVENTORY CONTROL SOFTWARE FEATURES

MATERIAL MASTER DATA:

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

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

MISCELLANEOUS

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

** Additional features and customization available at additional cost*

ABOUT VIDIR



Vidir is a leading manufacturer and worldwide supplier of automated vertical storage and material handling systems. Vidir's Vertical Carousel designs are versatile and flexible accommodating materials with diverse profiles ranging from rolled goods applications to printing plates. By altering the carrier design, we've developed models for storing tires, garments, cylinders, and manufacturing items like small parts and bar stock. To further optimize your use of space, Vidir's engineering staff can customize and adapt our standard line of carousel products for your specific storage and retrieval needs.



Installations in
over 40 countries
worldwide



40,000 +
global installations



Industries served:
Manufacturing, Aerospace,
Automotive, Retail, Healthcare,
Warehouse/Distribution and
many more.

VERTICAL STORAGE BENEFITS

More Space

Recovers average of 80% of your floor space.

Reclaim forgotten vertical space.

More inventory in less space.

Safety

Reduces the need for lifting, climbing and reaching.

Carts & Dollies available for easy loading and unloading of heavy product.

Efficiency

Helps increase inventory turns and drive costs out.

Ergonomic

Delivers product directly to operator at an ergonomic height.

No bending, lifting, stretching necessary.

Productivity

Faster material throughput helps improve productivity.



Making The Worlds
Products Safely Accessible



www.storevertical.com



Vidir is a leading manufacturer and worldwide supplier of Automated Vertical Carousels.

Vidir Canada: Box 700, Arborg, MB, R0C 0A0
Vidir US: 19 East Lehman Street, Lebanon, PA 17046



Sales: 800.210.0141
Service: 866.821.2647



Email: info@vidir.com

