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Think Vertical, Think Modula

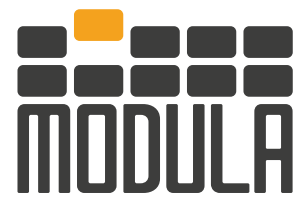


RMG has over 14 years of
experience in the field of SMT

Modula

Think Vertical, Think Modula

RMG IS PROUD TO BE
THE EXCLUSIVE DISTRIBUTOR OF MODULA



Modula LIFT

Think Vertical, Think Modula

NEW GENERATION

Recover
space and
increase
productivity

Modula: your Vertical Lift Module

Modula are automatic vertical lift modules with trays, based on the concept of vertical storage and space saving on the ground.

They can reach a unit height of 16,1 metres high and hold up to 90.000 kg.

They can store all types of materials in a secure, clean, efficient manner, and they allow a ground surface area saving of up to 90%.

Modula have over 30 years' experience as an Italian company boasting the highest technology lines: a real smart factory 4.0.

Without Modula



With Modula



Floor space recovery

up to **90%**



1. RECOVER SPACE



2. INCREASE SECURITY



3. SAVE TIME



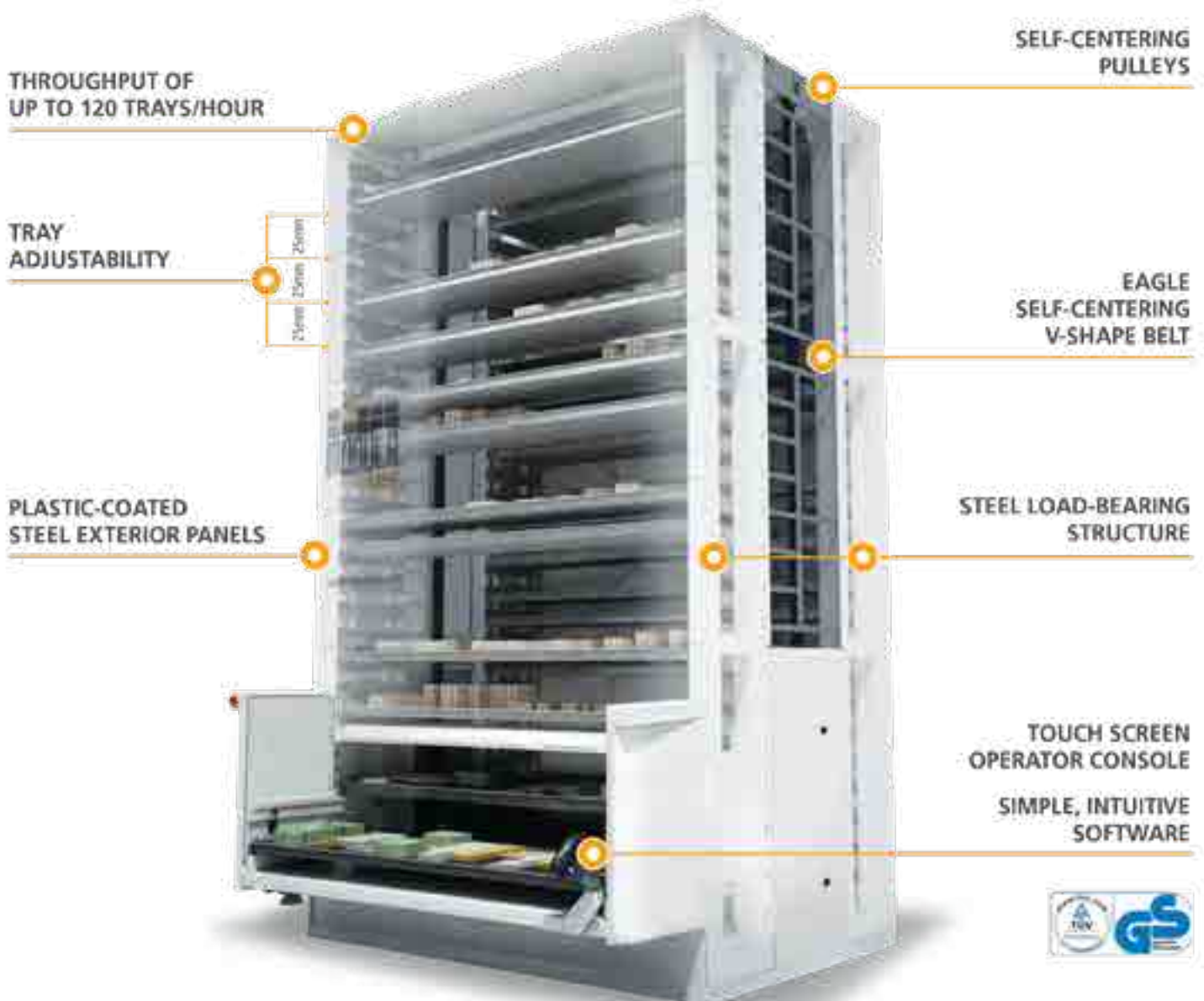
4. IMPROVE EFFICIENCY



5. REDUCE RISKS



6. BOOST INVENTORY
MANAGEMENT



TECHNICAL FEATURES

UNIT HEIGHTS <i>from 3,000 mm to 14,000 mm</i>	THROUGHPUT <i>up to 120 trays/hour (dependent on the configuration)</i>
UNIT HEIGHT INCREMENT <i>200 mm</i>	OPERATOR INTERFACE <i>industrial console with 10.4" touch screen (Copilot)</i>
TRAY STORAGE PITCH <i>25 mm</i>	NUMBER OF BAYS <i>up to 8, also above ground level and on the same site</i>
TRAY WIDTHS <i>from 1,500 mm to 4,100 mm</i>	TYPES OF BAY <i>normal or narrow with single or dual delivery level</i>
TRAY DEPTHS <i>654 mm & 857 mm</i>	<ul style="list-style-type: none"> • Minimal energy consumption • Automatic return tray weight check • Dynamic tray storage height • Load-bearing structure in galvanised steel • Eagle steel-reinforced toothed belt transmission • Elevator guide system with 6 rollers per side • Multiple payload tray management
GROSS TOTAL PAYLOAD <i>from 25,000 kg to 60,000 kg depending on model and configuration</i>	
MAXIMUM STACKABLE HEIGHT <i>650 mm (bay 2) / 865 mm (bay A) / 1,295 mm (bay Z)</i>	

Our advantages

Modula's tray configurations

You can configure the Modula in different ways according to how you plan to use it, with different types of picking bays.

- Single bay
- Internal bay
- Opposite bay
- Double bay
- External bay
- Displaced bay

With Modula you can select the dual delivery level to work on two trays at the same time (while one is in the bay, the other is preparing the subsequent picking), or with an external bay which facilitates worker activity if he is using mechanical aids like forklifts, zero-weight cranes or overhead hoists.

You can also carry out picking simultaneously on two sides of the machine or have access to trays in different levels.

Single internal delivery



Single external delivery



Dual internal delivery



Dual external delivery



What can you store in a Modula?

Whatever your industrial sector, Modula lets you store any type of product or spare part, in different sizes, weights, heights and volumes.

What do companies usually stock?

- Spare parts
- Small items
- Products or consumer goods for distribution or sale
- Finished and semi-finished products
- Tools, equipment, cosmetics, pharmaceuticals
- Electrical and electronic materials
- Mechanical parts
- Boxes and much more.



Our models

ME & ME-D



1,317 mm

Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
ME25	1.500	654	45 / 70 / 120	250	1.917x2.556	1.917x3.246
ME25D	1.500	857	45 / 70 / 120	250	1.917x3.165	1.917x4.058
ME50	1.500	654	70 / 120	500	1.917x2.556	1.917x3.246
ME50D	1.500	857	70 / 120	500	1.917x3.165	1.917x4.058
ME75	1.500	654	70 / 120	750	1.917x2.556	1.917x3.246
ME75D	1.500	857	70 / 120	750	1.917x3.165	1.917x4.058
ME1000	1.460	654	70 / 120	990	1.917x3.165	1.917x4.058
ME1000D	1.460	857	70 / 120	990	1.917x3.165	1.917x4.058

MA & MA-D



2,317 mm

Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
MA25	1.900	654	45 / 70 / 120	250	2.317x2.556	2.317x3.246
MA25D	1.900	857	45 / 70 / 120	250	2.317x3.165	2.317x4.058
MA50	1.900	654	70 / 120	500	2.317x2.556	2.317x3.246
MA50D	1.900	857	70 / 120	500	2.317x3.165	2.317x4.058
MA75	1.900	654	70 / 120	750	2.317x2.556	2.317x3.246
MA75D	1.900	857	70 / 120	750	2.317x3.165	2.317x4.058
MA1000	1.860	654	120	990	2.317x2.556	2.317x3.246
MA1000D	1.860	857	120	990	2.317x3.165	2.317x4.058

MC & MC-D



2,917 mm

Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
MC25	2.500	654	45 / 70 / 120	250	2.917x2.556	2.917x3.246
MC25D	2.500	857	45 / 70 / 120	250	2.917x3.165	2.917x4.058
MC50	2.500	654	70 / 120	500	2.917x2.556	2.917x3.246
MC50D	2.500	857	70 / 120	500	2.917x3.165	2.917x4.058
MC75	2.500	654	70 / 120	750	2.917x2.556	2.917x3.246
MC75D	2.500	857	70 / 120	750	2.917x3.165	2.917x4.058
MC1000	2.460	654	120	990	2.917x2.556	2.917x3.246
MC1000D	2.460	857	120	990	2.917x3.165	2.917x4.058

MX & MX-D



Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
MX25	3.100	654	45 / 70 / 120	250	3.517x2.556	3.517x3.246
MX25D	3.100	857	45 / 70 / 120	250	3.517x3.165	3.517x4.058
MX50	3.100	654	70 / 120	500	3.517x2.556	3.517x3.246
MX50D	3.100	857	70 / 120	500	3.517x3.165	3.517x4.058
MX75	3.100	654	70 / 120	750	3.517x2.556	3.517x3.246
MX75D	3.100	857	120	750	3.517x3.165	3.517x4.058
MX1000	3.060	654	120	990	3.517x2.556	3.517x3.246
MX1000D	3.060	857	120	990	3.517x3.165	3.517x4.058

ML & ML-D



Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
ML25	4.100	654	70 / 120	250	4.517x2.556	4.517x3.246
ML25D	4.100	857	70 / 120	250	4.517x3.165	4.517x4.058
ML50	4.100	654	120	500	4.517x2.556	4.517x3.246
ML50D	4.100	857	120	500	4.517x3.165	4.517x4.058
ML75	4.100	654	120	750	4.517x2.556	4.517x3.246
ML75D	4.100	857	120	750	4.517x3.165	4.517x4.058
ML1000	4.060	654	145	990	4.517x2.556	4.517x3.246
ML1000D	4.060	857	145	990	4.517x3.165	4.517x4.058



MAXIMUM PAYLOAD FOR ALL TRAYS: UP TO 990 KG PER TRAY



INDUSTRIAL COPILOT CONSOLE: 10.4 INCH TOUCH SCREEN



MODULA WMS SOFTWARE: TO HAVE EVERYTHING UNDER CONTROL



OPERATOR SAFETY: ERGONOMIC, SAFE, TUV CERTIFICATION

Modula integrates with all technology

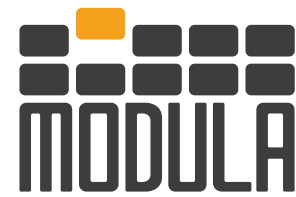
Modula is ideal for those who also need complete integration with other technologies such as:

- Robots
- Roller conveyor
- Put-To-Light systems
- Manipulators
- Zero Weight cranes.

Thanks to Modula WMS warehouse software, your VLM can be integrated with all ERP systems to connect the warehouse Modula into the company workflow and make it interact with the management system.

This way you can manage the materials and users registries, production orders, stocks, spare parts, and you can better check on stocks and all warehouse movements: picking and restoring. With Modula, taking inventory is very easy, while producing dedicated analyses and reports to have everything under control.





Modula SLIM

Think Vertical, Think Modula

**ALL THE BENEFITS OF A VLM
IN THE SPACE OF A VERTICAL CAROUSEL**

Minimum depth,
maximum
efficiency

Have you ever seen
such a compact
vertical VLM?

Modula Slim is the smart choice for anyone looking for a vertical storage solution with complete flexibility.

The best of the LIFT technology built in a:

- 3 m² of floor space
- 1,6 m depth

... and so flexible?

You can store all sorts of materials and products in your Modula Slim: loose materials, containers (boxes, bins, packs, cartons, cases), small items, spare parts, coils, flasks.



What MODULA SLIM can do for you

- Recovers floor space, making the most of storage density
- Reduces picking times
- Makes materials accessible to all operators, quickly and ergonomically
- Keeps stock levels and all warehouse items under control
- Integrates easily into your company processes by communicating with all ERP systems
- Tracks picking and refilling operations, identifying who did what and controls every access
- Eliminates picking and refilling errors by guiding the operator through the process

Easy, Fast Ergonomic

INTEGRATED ERGONOMIC TOUCH SCREEN INTERFACE

EMERGENCY BUTTON

END OF PICKING BUTTON

V-SHAPE STEEL REINFORCED TOOTHED BELT



Up to 7 meters

LED ALPHANUMERIC BAR

1,6 m depth

Unit height:
from 2.400 mm to 7.000 mm

Unit height increment:
100 mm

Tray storage pitch:
25 mm

Tray widths:
1.300 - 1.900 - 2.500 mm

Tray depth:
425 mm

Net tray payload:
350 kg

Total gross payload:
25.000 kg

Maximum storage height:
650 mm

Bay delivery level height:
835 mm

Tray wall height:
45 mm

Throughput:
up to 190 trays/hr (depending on the configuration)

Operator interface:

10,4" touch screen industrial console (Copilot)

Number of bays:

1

Types of bay:

internal with single delivery level

Low energy consumption:

1.2 kW/h for SLIM 1.3 model, H=7.000 mm

Power supply:

230V single-phase and 400V three-phase

Certification:

TÜV-GS

V-Shape steel reinforced toothed belt transmission (4 belts)



**Quick
to install,
easy to use**

Modula Slim is built on a pre-assembled base module which is easy to move and quick to install. This means that the VLM can be set up in your plant and ready in 48 hours. Modula Slim also integrates quickly with your company ERP system thanks to Modula WMS (Warehouse Management System).

Not just easy and quick to install but also to use. It's really easy for your operators to interact with Modula Slim. They can use the user-friendly touch screen interface and simple controls integrated into the bay like the end of picking button, EKS reader, LED bar etc.

In just a few days, your Modula Slim can be used by anyone and you will see an incredible picking speed increase.

PLUG & PLAY Installation in 48 hours



Touch screen console and integrated electrical panel



End of picking button

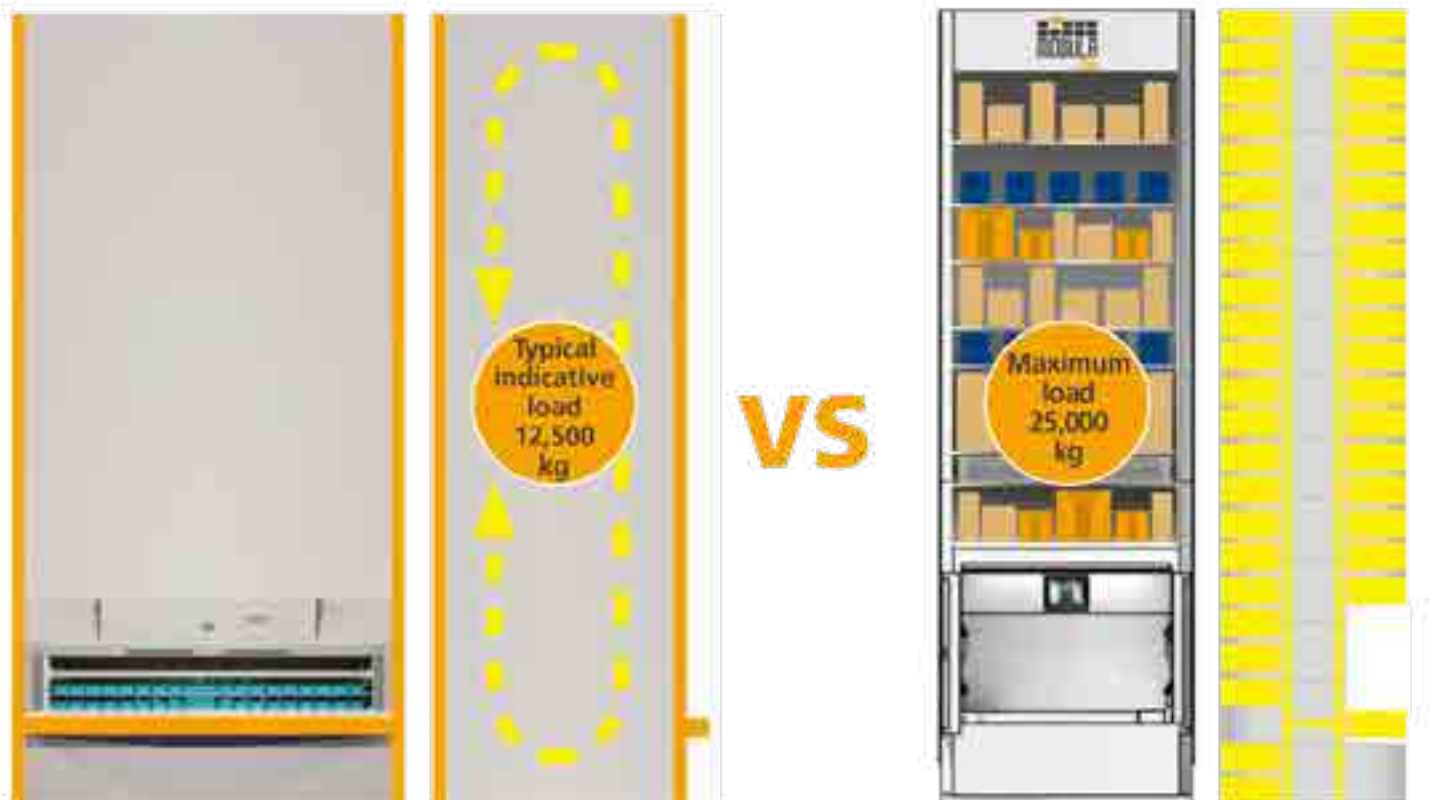


Trays with subdividing accessories

Have you ever seen such flexibility?

Make use of all the space inside your Modula SLIM without limits or constraints. Choose dynamic storage without fixed heights and with a truly SLIM depth.

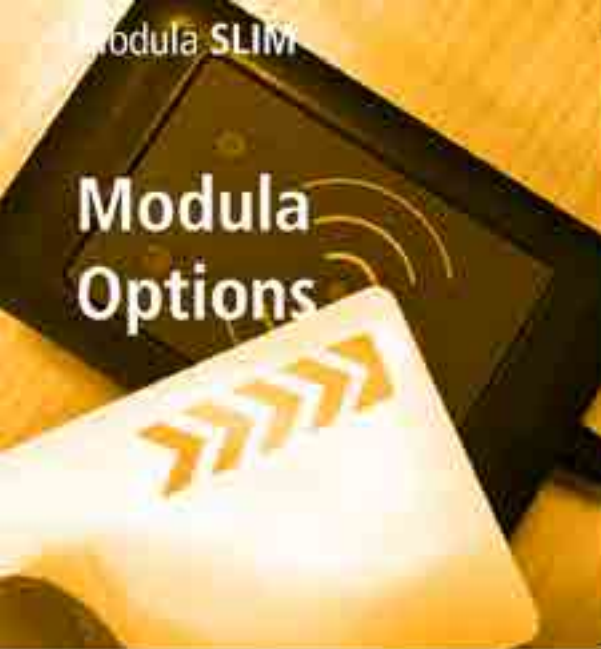
- Total payload is up to 25,000 kg with 7 metres in height **and no more than 1,6 m in depth**
- You can make use of all the available space in your VLM thanks to **dynamic tray** height storage: there are no fixed heights as the Modula Slim calculates the best place to put the trays and eliminates any wasted space between them
- With Lift technology and the way the elevator moves, there are no issues **with unbalanced loads** unlike with carousel systems.
- Energy consumption is relatively low: less than **1.2 kW/h**
- You can choose to power the warehouse with a **three-phase (400V)** or a **single-phase (230V) supply**
- **Maintenance is limited**: the V-Shape toothed belt transmission system is super quiet, requires no lubrication and its self-aligning pulley system means it's super easy to install and adjust
- You can add all **options from the Modula range** such as visual aids, Put to light, access control systems, partitions, dividers and slotted tray walls to subdivide the trays.



Option Modula

LIFT & SLIM





Trays can be fitted with options such as partitions and dividers to create compartments, meaning you can store materials or containers which might be very different from each other. These options mean that the layout of materials in the trays is incredibly flexible and easy to modify.



VISUAL AIDS These give a visual indication of the location of the requested item and speed up picking and refilling operations. They guide the operator to the location of the items within the tray and noticeably reduce errors.

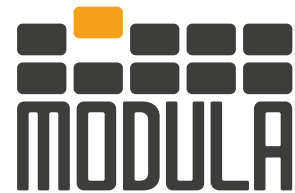


ACCESS CONTROL These devices protect stored materials from unauthorised access. You can give different users access to different trays/materials or compartments based on their permissions. Access can be granted using a login and password entered into the console, or it can be achieved using a strictly personal device which makes the operation very quick.



OPTIONS WHICH INCREASE PRODUCTIVITY 1D/2D barcode readers can quickly scan the product and avoid any manual checks, integrated Put to Light increases the number of order lines processed at the same time or handles multiple orders simultaneously, electrostatic discharge protection systems (ESD) protect sensitive items.





Modula HC

Think Vertical, Think Modula

HORIZONTAL CAROUSEL

OUR PRODUCTS ARE
 ★ **MADE IN USA** ★
 From US & Imported Components

The Horizontal Carousel New Generation from Modula: Making a Proven Design Even Better

Our Diamond Phoenix Horizontal Carousel has been a workhorse in warehouses across the globe. Now we've taken everything we've learned from its 30 years of production and improved upon it with the Modula Horizontal Carousel New Generation.

New features

- **Competitively priced due to standardization**
Based on 30 years of learning what our customers want, we've standardized our horizontal carousel product line to allow more efficient manufacturing. We pass on the savings by offering them at an even more competitive price.
- **Safety equipment on all models**
Automatic doors and perimeter guarding are now standard on all horizontal carousels.
- **A stronger framework for unmatched dependability**
The Modula Horizontal Carousel New Generation framework is built with structural steel, custom formed steel, and solid - not tubular - 304 stainless steel rail. This results in more strength, lower maintenance and long-term reliability.
- **Modula controls platform and a new, user-friendly interface**
The same easy-to-use control system found in other Modula products is now part of our horizontal carousels.
- **Proven, powerful drive systems**
All our carousels are driven by a single or dual 3HP drives to power high-capacity loads. Inverted drives are available to accommodate limited ceiling height.

High-performance order fulfillment in low ceiling environments

Modula horizontal carousels are the ideal solution when you need high-speed picking in a low ceiling environment. The carousel consists of carriers (bins) mounted on an oval track that rotate horizontally and deliver stored goods to the picker.

In either a production or distribution setting, the horizontal carousel is extremely effective in saving space, reducing labor costs, increasing throughput and improving accuracy and inventory control.



Main benefits



PRODUCTIVITY AND HIGH THROUGHPUT
Following the “goods to person” principle, items are brought directly to the operator. With no more hunting across a warehouse for items, productivity skyrockets, with picking rates of up to 550 lines per hour for each worker



EFFICIENT SPACE UTILIZATION
Items are stored and organized in a high density, compact storage area



FULL TRACEABILITY AND REAL-TIME INVENTORY
All picking operations are monitored and documented, providing full traceability of orders and tracking stock levels in real time



SAFETY AND ERGONOMICS
No more ergonomic problems for workers caused by walking back and forth across a warehouse, retrieving and carrying parts. Additionally, workers are protected by safety doors and 8-foot-high protective fencing



FLEXIBILITY FOR EVERY STORAGE NEED
Shelf spacing can be easily adjusted to store different items. Pods can be reconfigured to meet seasonal peak ordering



PICKING ACCURACY
Thanks to visual picking aids, workers can quickly identify which item to pick and how many are required. This eliminates the risk of human error, improving accuracy up to 99%



FAST ROI
Companies see a return on investment in 6 to 18 months, depending on the size of the project.

Reliable and flexible bins to meet any storage need

Robust and reliable, the Modula Horizontal Carousel's bins have a payload capacity of up to 1,200 lbs per bin and a shelf spacing adjustment of 2 inches, making them suitable for even the most demanding storage application.



URETHANE BUFFERS ENSURE EVEN WEIGHT DISTRIBUTION AND REDUCE SHOCK LOADS

BIN CAPACITY UP TO 1,200 LBS
WITH A LOAD CAPACITY UP TO 250 LBS
PER SHELF



SOLID STAINLESS STEEL TOP TRACK WITH
SPECIALLY DESIGNED SEALED BEARINGS
TO DISTRIBUTE LOAD ACROSS THE TRACK

ADJUSTABLE SHELF SPACING OF 2 INCHES

Ergonomic workstation to boost productivity

Following the parts-to-pickers principle, the horizontal carousel delivers the items directly to the operator, reducing handling times both in picking and replenishing. There's no walking back and forth to find and retrieve goods. Thanks to the visual picking aids, the user can quickly identify which item should be picked and the quantity requested, allowing picking rates of up to 550 lines per operator each hour. Accuracy jumps up to 99.9%, too!

Safety and security as a standard

The Modula Horizontal Carousel New Generation has been designed with safety and security in mind. All models are equipped with safety doors and surrounded by 8-foot-high fencing. These features prevent accidents and protect the goods from unauthorized access.



Automatic safety doors

The fast opening and closing times of the automatic doors keep the operator away from the moving components of the carousel until the bin has come to a complete stop. The curved design provides optimal use of the space and more efficient pod-picking configurations. The full height door panels are made of Lexan, a highly impact-resistant polycarbonate resin that, despite its strength, offers clear visibility of the stored products and carousel activity.

Additional safety systems

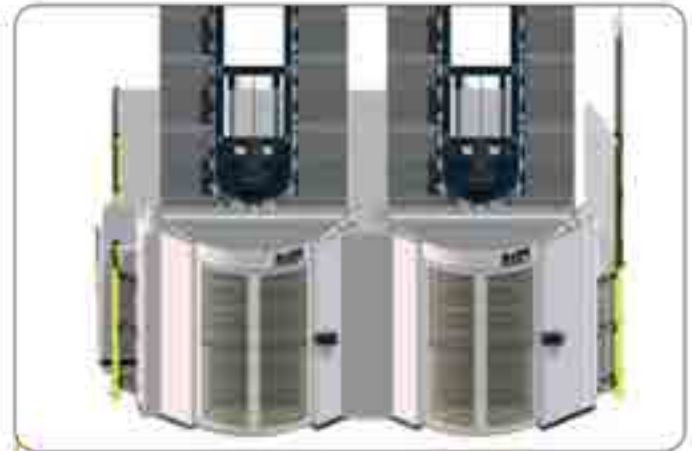


Productivity & flexibility: Horizontal carousels in pods

To speed picking times, horizontal carousels are often used in an integrated workstation called a "pod." Software and pick-to-light technology allows the carousels to work in conjunction with each other and speed productivity.

The Modula Horizontal Carousel is offered in in pre-configured groups of **two, three, and four carousels per pod**.

As the worker picks from one horizontal carousel in the pod, the other is pre-positioning the next pick. This minimizes worker downtime and dramatically increases throughput. Moreover, horizontal carousels arranged in pods offer great flexibility. With a simple software adjustment, the pods can be easily reconfigured to meet seasonal peak order times.



2 Carousel Pod



3 Carousel Pod



4 Carousel Pod

Even more adaptability

- The distance between carousels can be modified to accommodate building columns and other obstructions.
- The control panel to operate the pods can easily be positioned in different locations to best fit the configuration.
- The perimeter of the safety fence can be customized to meet site requirements.



Everything controlled with user friendly interfaces

The Modula Horizontal Carousel New Generation is controlled by:

- The Horizontal Carousel **Main Control Panel** is used to set up and maintain the carousel itself. It includes an emergency stop button and maintenance lockout key switch.
- The **HMI (Human Machine Interface tablet)** tablet is a full-color wireless tablet positioned in the picking area of each carousel, close to the automatic safety door. It's used to execute the tasks and can also provide emergency stops if needed.



Picking accuracy with the visual picking aids

To make picking and replenishment activities more accurate and reduce idle time, the edge of each automatic door is equipped with **LED light bars**. This visual picking aid guides the operator to visually identify where the item to be picked is located on the shelf in the presented bin.

The **HMI tablet** displays the item details and quantity and highlights the shelf compartments on a graphical diagram. This complete information simplifies the operator's work, resulting in accurate and quick picks.



LED LIGHT BARS INDICATE THE CORRECT SHELF



THE HMI TABLET DISPLAYS ITEM DETAILS AND QUANTITY

Modula WMS

Modula WMS is a complete inventory management software ideal for all Modula automated storage equipment, including vertical lift modules and horizontal carousels. It also works as stand-alone software to assist with traditional storage methods, such as shelving or racking.



MODULA LINK

Modula Link is a software tool that enables an external host system to control at low level a Modula Horizontal Carousel, using a set of commands managed through communication on a TCP/IP channel socket.

Modula WMS Premium & Advanced Picking

There are several levels and types of software available for inventory control and management, and many of these solutions can be tailored and customized. Modula WMS Premium Software, combined with the Advanced Picking option, can result in batch picking that greatly reduces workers walking to pick items and significantly increase picking rates and throughput.



MODULA WMS PREMIUM

The most complete package for warehouse management, Premium provides:

- automatic item-compartment allocation and dynamic location management
- lot and serial number management
- full management with custom tracking of automatic import/export in ASCII, ODBC, Excel and XML file formats
- management of free or tabled sub-codes
- material status management, pack type management and expiration date management advanced user management; configuration of enabled procedures for each individual user
- material management by FIFO or by sub-code priority (e.g., picking can be prioritized to first retrieve the lowest, and therefore oldest, lot code)
- reason codes for immediate requests.



ADVANCED PICKING

This module provides additional functionalities to improve picking and replenishing:

- order position management
- batch picking management
- warehouse management of materials in transit (packages, cartons, boxes)
- automatic creation of storage compartments during replenishing operations
- serial number management (management of multiple serial numbers for the same item associated with an individual compartment).

The advanced picking module is ideal for managing bays, picking carts, and Put to Light aids.

Even higher throughput with batch picking

To achieve even higher picking performance, the horizontal carousel can be used in combination with batch picking. Using Modula WMS software, an operator can create a batch of orders and fill them all at one time.

When the horizontal carousel presents an SKU for picking, the operator picks the total SKU quantity for all orders. The batch picking lights, located at each order position, will then direct the picker to the correct location and indicate the quantity that needs to be placed in each order. By using batch picking, the operator only visits an SKU location one time during picking.

This increases accuracy, reduces picking errors and retrieval time while increasing productivity by up to 65%. The put-away process can be automated much like the picking process in reverse.



Multiple operators

Multiple displays can be integrated in each order position to facilitate multiple picking operators (up to 3). This can be helpful for meeting higher throughput rates during peak times.

Graphical representation of orders

The WMS software provides the operator a graphical representation of the orders in the active batch, as well as information on the item that is being picked and the orders the item is associated with.

Technical specifications

BIN SPECIFICATIONS	MD	MG
Bin Inside Width	24"	36"
Bin Shelf Depth	18" & 24"	
Shelf Adjuster Increment	2"	
Bin Nominal Height ¹	84" & 96"	
Product Clearance	Shelf spacing minus 3.5"	
Maximum Bin Capacity ²	1,200 lbs	
Maximum Capacity per Shelf	250 lbs	
Bin Volume 18" deep x 84" high	21 Cu Ft	31.5 Cu Ft
Bin Volume 18" deep x 96" high	24 Cu Ft	36 Cu Ft
Bin Volume 24" deep x 84" high	28 Cu Ft	42 Cu Ft
Bin Volume 24" deep x 96" high	32 Cu Ft	48 Cu Ft
Bin Wgt Cap per Cubic Ft 18" deep x 84" high	57 lbs/ft ³	38 lbs/ft ³
Bin Wgt Cap per Cubic Ft 18" deep x 96" high	50 lbs/ft ³	33 lbs/ft ³
Bin Wgt Cap per Cubic Ft 24" deep x 84" high	43 lbs/ft ³	29 lbs/ft ³
Bin Wgt Cap per Cubic Ft 24" deep x 96" high	38 lbs/ft ³	25 lbs/ft ³
Bin Construction	20 Gauge galvanized steel, solid sides and back wall	
Bin Weight Empty, 84" High, 24" Deep	115 lbs	145 lbs
Bin Weight Empty, 84" High, 36" Deep	124 lbs	156 lbs
Bin Weight Empty, 96" High, 24" Deep	126 lbs	156 lbs
*Bin Weight Empty, 96" High, 36" Deep	137 lbs	168 lbs
Bin Cover Weight, 18" Deep	3.7 lbs	5.5 lbs
Bin Cover Weight, 24" Deep	5.1 lbs	7.5 lbs
Shelf Construction	Solid surface, 18 gauge galvanized steel	
Shelf Weight, 18" Deep	7.9 lbs	11.2 lbs
Shelf Weight, 24" Deep	10.1 lbs	14.3 lbs
Reinforcement Bar Weight	1.5 lbs	2.2 lbs

CAROUSEL SPECIFICATIONS	MD	MG
Uppertracks	01-1/4" Solid 304 SS	
Carousel Drive	Direct Drive, Cyclopic Gearing	
Drive HP	Single or Dual 3HP	
Max Live Load Capacity ³	Single Drive 40,000 L Dual Drive 80,000 Lbs	
Carousel Maximum Speed	85 FPM	
Accumulator Safety System	Standard	
Operator Interface	Touchscreen Tablet	
Other Operator Controls	Multi-Function Buttons, E-stop	
Other Control Devices	Product protrusion sensors, door open sensor	
Color - Carousel Frame Structure	RAL 7021 Black Grey	
Color - Door System	RAL 7035 Light Grey	

POD SPECIFICATIONS	
Carousels per Pod	1 to 4
Carousel Platform	CoPilot Based Controls
Control Cabinet	Single NEMA 12 per pod
Carousel Callout Operator Controls	CoPilot Touchscreen Master HMI, E-stop, Maintenance Lockout Key
Power Options	230V 3-Phase or 480V 3-Phase
8 Foot High Perimeter Fencing	Standard (includes one access gate)
Fencing Color	Black Wire Mesh Panels with Safety Yellow Posts

Options

- Powder Coated Bins and Shelves
- Bin Top Dust Covers
- Door Mounted LED Shelf Level Indicator Bars (Requires WMS software)
- Batch Picking Workstation
- Batch Picking Pick-To-Light System
- WMS Software Packages
- Perimeter fencing modifications
- Non-standard carousel center-to-center distances (to accommodate building columns and other restrictions)
- Special provisions for building columns within carousels

NOTES

1. Bin height of 96" may require a mobile step (by others) to access upper shelf elevations
2. Bin Capacity = shelves + reinforcement bars + covers + product (* if equipped)
3. Live Load Capacity = bin QTY (bin capacity + bin weight empty)

Options for different requirements

Thanks to the WMS software, it is easy to integrate additional options:

- Security devices, such as badge readers to control the access to your inventory.
- Productivity aids, including batch pick stations, label printers, barcode readers, and piece counting scales.

BATCH PICKING STATION

The ergonomic batch picking station is designed to maximize worker efficiency and rapidly process large volumes of small to medium-sized items. Used in conjunction with WMS order picking management and the Put to Light indications, this station provides intuitive instructions to maintain high throughput and ensure accuracy through organization and task confirmation.



USB BADGE READER

The USB badge reader, directly connected to the control panel by the USB port, is ideal for maintaining control of user log-ins.

The operators use their personal badges to access the machine. This prevents unauthorized accesses if the standard log-in procedure of employing a password isn't sufficient.



LABEL PRINTERS

Label printers are a great option to ensure that all items are properly labeled in real time. During picking or replenishment operations, the operators simply enter the desired information using the HMI tablet. Labels and tags containing the information of the materials are printed as operations take place. Label printers are available in a variety of models.



BARCODE READERS

Barcode readers can significantly improve picking accuracy and ensure that the correct item is picked or replenished. They can also be used to confirm orders or to log into the horizontal carousel with the operator's unique badge barcode. The devices are wireless units for ease of use and are available in both 1D or 2D versions to meet any application requirements.



PIECE COUNTING SCALE

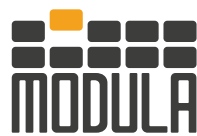
This device can count the number of items placed on the scale based on the unit weight of each individual piece. It's the ideal tool when large quantities of small-sized components are stored, helping the operator quickly select the required quantities. The scales come with a single platform with load capacities of 6, 13, 33 or 66 lbs or as a double platform to accommodate items of widely varying weights.



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