

US



# Modula SLIM

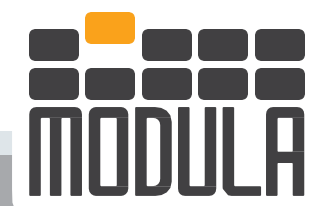
Think Vertical, Think Modula

ALL THE BENEFITS OF A VLM  
IN THE FOOTPRINT OF A VERTICAL CAROUSEL

Presented by



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



[modula.com](http://modula.com)

Modula SLIM

Minimum depth.  
Maximum efficiency.

## The most compact VLM in the industry.

Modula SLIM is the smart choice for anyone looking for a vertical storage solution with complete flexibility. The same technology found in our LIFT model, but in a much smaller footprint.

- 32.29 ft<sup>2</sup> of floor space
- 66" depth

## Really flexible storage.

You can store all sorts of materials and products in your Modula SLIM, such as: loose material, containers, (boxes, bins, cartons, cases), small items, spare parts, coils, bottles, and more.



## What can Modula SLIM do for you?

- Recovers floor space, optimizing storage density
- Reduces picking times
- Makes materials accessible to all operators, quickly and ergonomically
- Keeps stock levels and all warehouse inventory under control
- Integrates easily into your company processes by communicating with any ERP system
- Tracks picking and restocking operations, controlling who has access and logs their activity
- Eliminates picking and restocking errors by guiding the operator through the entire process

**Fast.  
Easy.  
Ergonomic**



V-SHAPE  
STEEL REINFORCED  
TOOTHED BELT

Up to 23 ft

INTEGRATED EYE LEVEL  
TOUCH SCREEN INTERFACE

EMERGENCY  
STOP SWITCH

PICK COMPLETE  
BUTTON

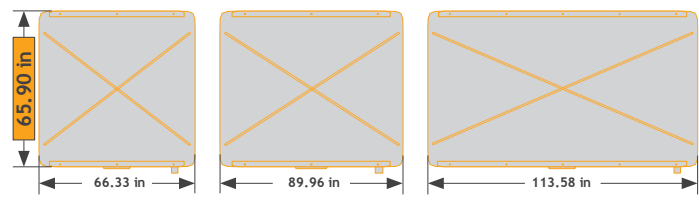
LED ALPHANUMERIC  
BAR

**Less than 66" deep!**

**Technical Specifications**

- Unit height:  
from 7' 10 1/2" (2,400 mm) to 22 ft 11.5 in (7,000 mm)
- Unit height increments:  
3.9 in (100 mm)
- Tray storage pitch:  
1 in (25 mm)
- Tray widths:  
51.18 in - 74.80 in - 98.42 in (1,300 - 1,900 - 2,500 mm)
- Tray depth:  
16.73 in (425 mm)
- Net tray payload:  
771.618 lbs
- Total tray payload:  
55,115 lbs
- Maximum storage height:  
25.6 in (650 mm)
- Bay level delivery height:  
32.87 in (835 mm)
- Tray wall height:  
1.77 in (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
- Bay delivery type:  
internal with single delivery level
- Low energy consumption:  
1.2 kW/h for SLIM 1.3 model, H=22 ft 11.5 in
- Power supply:  
110V Single phase or 480v three phase
- V-Shape steel reinforced toothed belt transmission (4 belts)



# Modula SLIM

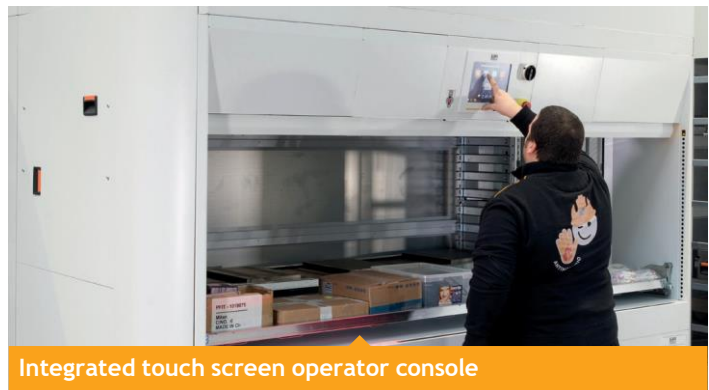
Quick to install.  
Easy to use.

Modula SLIM is built on a preassembled base module which is easy to ship and quick to install. This means that this VLM can be set up in your plant and ready in 48 hours. Modula SLIM also integrates easily with your company's ERP system thanks to the Modula WMS (Warehouse Management System).

Not just quick and easy to install, but it's also easy for your operators to work with the Modula SLIM. They will use an intuitive touch screen interface and simple controls that are ergonomically integrated into the bay, like the pick complete button, EKS reader, LED bar etc.

In just a few days your staff can be trained to use the Modula SLIM and you can start realizing ROI with the incredible picking speed increase in your facility.

## PLUG & PLAY Installation in 48 hours



Integrated touch screen operator console



Pick complete button



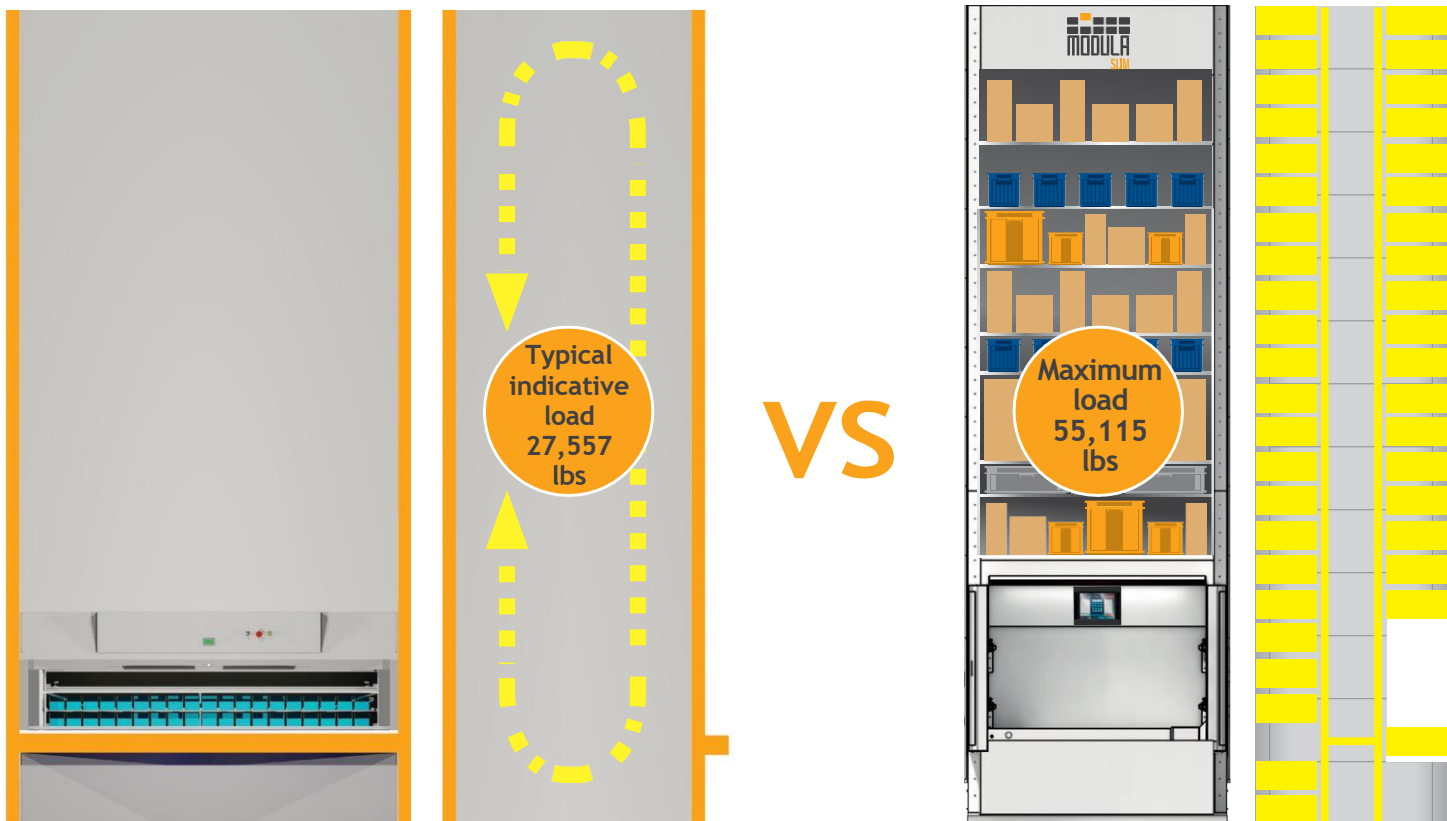
Trays using our available sub-dividers

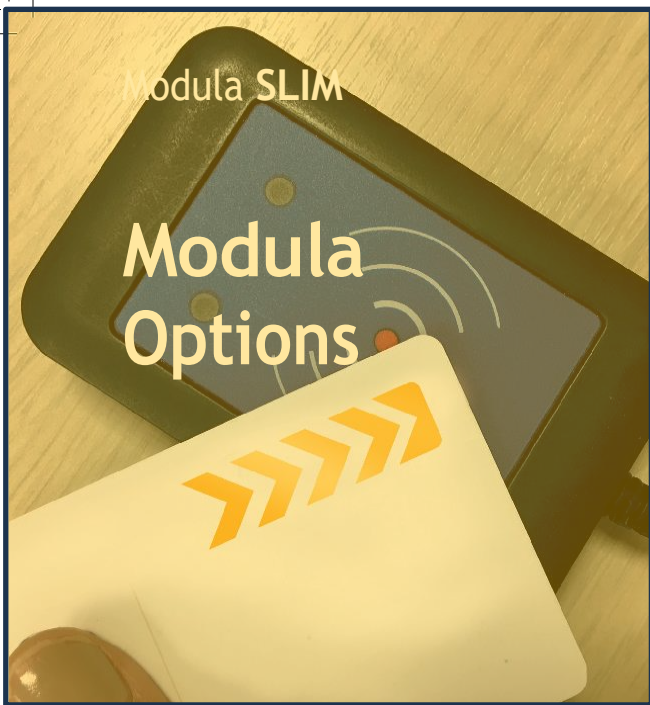
# Have you ever seen such flexibility?

Choose dynamic storage without fixed heights and with a truly SLIM depth.

- Total payload is up to 55,115 lbs with 22.96 ft in height **and no more than 66" 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 best in class VLM technology and how the elevator system moves, there are **no load imbalance issues** like vertical carousel systems have
- Energy consumption is low: uses less than **1.2 kW/h**
- You can choose to power this vertical warehouse unit with a **three-phase (480V)** or a **single-phase (110V) power supply**
- **Minimal maintenance:** the V-Shape toothed belt transmission system is super quiet and requires no lubrication. Additionally, its self-aligning pulley system means it's super easy to install and adjust
- You can add all of the **options from the Modula suite**, such as: visual aids, Put to light, access control systems, partitions, and our slotted tray wall system with customizable dividers to keep items separated and organized in the trays

# Double the load capacity compared to typical vertical carousel technology





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



Tray Accessories

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



LED Bar



Alphanumeric Bar



Laser Pointer

**ACCESS CONTROL** These devices protect stored materials from unauthorized 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.



RFID Reader



Magnetic Badge Reader



EKS Reader

**OPTIONS THAT 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. System-Level Electrostatic Discharge Protection (ESD) protects sensitive items like electric circuits from malfunction or breakdown.



ESD Protection System



1D/2D Barcode Reader



Put to Light



# A Few Modula Customers



## BEVERAGE

AKIJ FOOD AND BEVERAGE	Bangladesh
BODEGAS JOSE ESTEVEZ	Spain
COCA COLA	Belgium, USA
CONTRI SPUMANTI	Italy
GINESTET	France
MOTHER PARKERS	USA
NATURAL WATERS OF VITI	Fiji
NESTLE WATERS	UK
PEPSICO	USA, Australia, UK, Germany, Brazil
SPENDRUPS	Sweden
SUNTORY	Mexico



## MECHANICAL METALLURGICAL

ALSTOM TRANSPORT INDIA	India
BIESSE	Italy, USA, Malaysia
BONFIGLIOLI RIDUTTORI	Italy, India, USA, China
SATURN FASTENERS	USA



## AUTOMOTIVE

AUDI	Mexico, Belgium, Spain
BMW	China, Belgium, Germany, Mexico, Canada, UK
BREMBO	Italy, Poland, China, Czech Rep., USA
BRIDGESTONE CANADA	Canada
CNH INDUSTRIAL	Spain, Italy, Belgium, Netherlands
CONTINENTAL	USA, Germany
FCA	Brazil, Poland, Italy, Serbia
FERRARI	Italy
TRELLEBORG	UK
GOODYEAR	Germany, Canada
HARLEY DAVIDSON	USA
JAGUAR	Belgium
MASERATI	Italy
MICHELIN	France
PEUGEOT-CITROEN	France
PORSCHE	Germany
RENAULT	France
SUBARU	USA, Canada
VOLKSWAGEN	Germany, China, Spain, Argentina



## CHEMICAL PHARMACEUTICAL BIOMEDICAL

GLAXOSMITHKLINE	Italy, UK, USA
INNOMED	USA
INTAS PHARMACEUTICALS	India
JOHNSON & JOHNSON	USA, Brazil
ORFIT	Belgium



## ELECTRONICS

BHARAT ELECTRONICS	India
EATON CONTROLS	Mexico
PT INFINEON	Singapore
SIEMENS	France, India, Mexico
WURTH	Germany, Slovakia



## HYDRAULIC PNEUMATIC

BOSCH REXROTH	Mexico, Germany, USA, Italy
WALVOIL	Italy, USA
GUNTER TATA HUOTECHNIKA	Hungary
MECANIZADOS ALCOY	Spain



## AGRICULTURAL MACHINERY

CNH INDUSTRIAL	Brazil, Italy, Spain, Belgium
KOMATSU	Italy
JOHN DEERE	USA
RANGER INDUSTRIES	USA



## TRANSIT

METROPOLITAN TRANSPORTATION AUTHORITY	USA
NEW YORK CITY TRANSIT AUTHORITY	USA
SNCF	France
TORONTO TRANSIT COMMISSION	Canada



## PLASTICS

CONTITECH CHINA RUBBER & PLASTICS TECHNOLOGY	China
MILACRON PLASTIC TECH	USA
KLINTPACK	Thailand
WESTLAND GUMMIWERKE	Germany



## FOOD

CHOBANI	USA
GRISSIN BON	Italy
OISHI - LIWAYWAY CHINA	China



## AVIATION AEROSPACE

BOMBARDIER	Germany
CHINA ACADEMY OF SPACE TECHNOLOGY	China
HINDUSTAN AERONAUTICS	India
LOCKHEED MARTIN	USA
LUFTHANSA	China



## CERAMICS

FLORIM	Italy, USA
PORCELANOSA MEXICO	Mexico
PORCELANOSA NEW YORK	USA
ROCA SANITARIO	Spain
SACMI	Italy, Spain, Mexico



## APPAREL

GIORGIO ARMANI	Italy
HERMES	Italy
NIKE	USA, Belgium
PRADA	Italy
VALENTINO	Italy



## COSMETICS

AIR-VAL INTERNATIONAL	Spain
BERGHEM AROMAS L'OREAL	Spain

MARIA GALLAND	Germany
RUSI COSMETIC	Germany



## OPTICAL

ALCON	USA
BUHLER LEYBOLD OPTICS	China
LUXOTTICA	Italy
MEKRA LANG	Germany



## JEWELRY

LUCE BIANCA	Italy
MIDAS CHAIN	USA
OTTAVIANI INTERNATIONAL	Italy
PERLUNICA	Italy



## ENERGY OIL & GAS

BAKER HUGHES	UK
GE ENERGY	USA
KUWAIT NATIONAL PETROLEUM COMPANY	UAE
PETRO CANADA	Canada
PETROLEO BRASILEIRO	Brazil, Poland, Italy, Serbia



## PULP & PAPER

AKIJ PRINTING AND PACKAGES	Bangladesh
BIC ECRITURE	France
CCL LABELS	USA
INTERNATIONAL PAPER	USA
HACHETTE LIVRE	France



## DEFENSE

DDDC DEFENSE DISTRIBUTION DEPOT CAL DLA-AVIATION	USA
U.S.A.F. - MCCONNELL AIR FORCE BASE	USA
U.S. AIR FORCE DOVER AFB	USA



## SUPERMARKET & GROCERY

CONAD DEL TIRRENO	Italy
CONSUM COOP	Spain
OTK KART USA	USA
SUPERMERCATI TOSANO CEREAL	Italy
WOOLWORTHS SUPERMARKET	Australia



## HOME FURNISHINGS

ALLIANCE LAUNDRY	Czech Rep.
BIG HOME SHOP	UK
INTERFACE	USA
SCAVOLINI	Italy
SANA TRENNWANDBAU	Germany



## PACKAGING

AETNA GROUP	USA
POPLAST	Italy
SOFLOG	France
TETRA PAK	Italy

# Modula Around the Globe.



## Greenspace Industrial

### CANADA HEADQUARTERS

80 Millwick Drive  
North York, ON  
M9L 1Y3  
Tel. 416-550-0456  
sales@greenspaceind.com  
[www.greenspaceind.com](http://www.greenspaceind.com)



All information provided in this catalog is for informative purposes only and is not binding. Modula reserves the right to change information in this catalog at any time. Modula will not accept liability for or guarantee the accuracy of the information contained herein.