

US

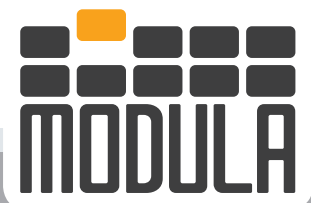


# Modula SLIM

Think Vertical, Think Modula

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

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.

## Really flexible storage.

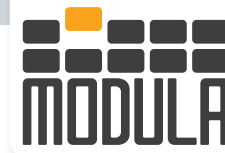
You can store all sorts of materials and products in your Modula SLIM, such as: loose material, containers, (boxes, bins, cartons, cases), small items, spare parts, coils, bottles, and more.

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



## 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**

INTEGRATED EYE LEVEL  
TOUCH SCREEN INTERFACE

EMERGENCY  
STOP SWITCH

PICK COMPLETE  
BUTTON

V-SHAPE  
STEEL REINFORCED  
TOOTHED BELT

Up to 23 ft

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

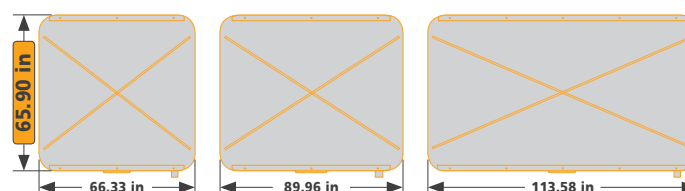
**Low energy consumption:**

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

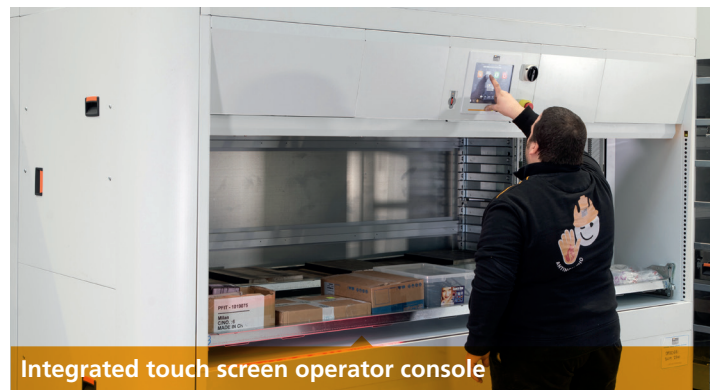
**Quick to install.  
Easy to use.**

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



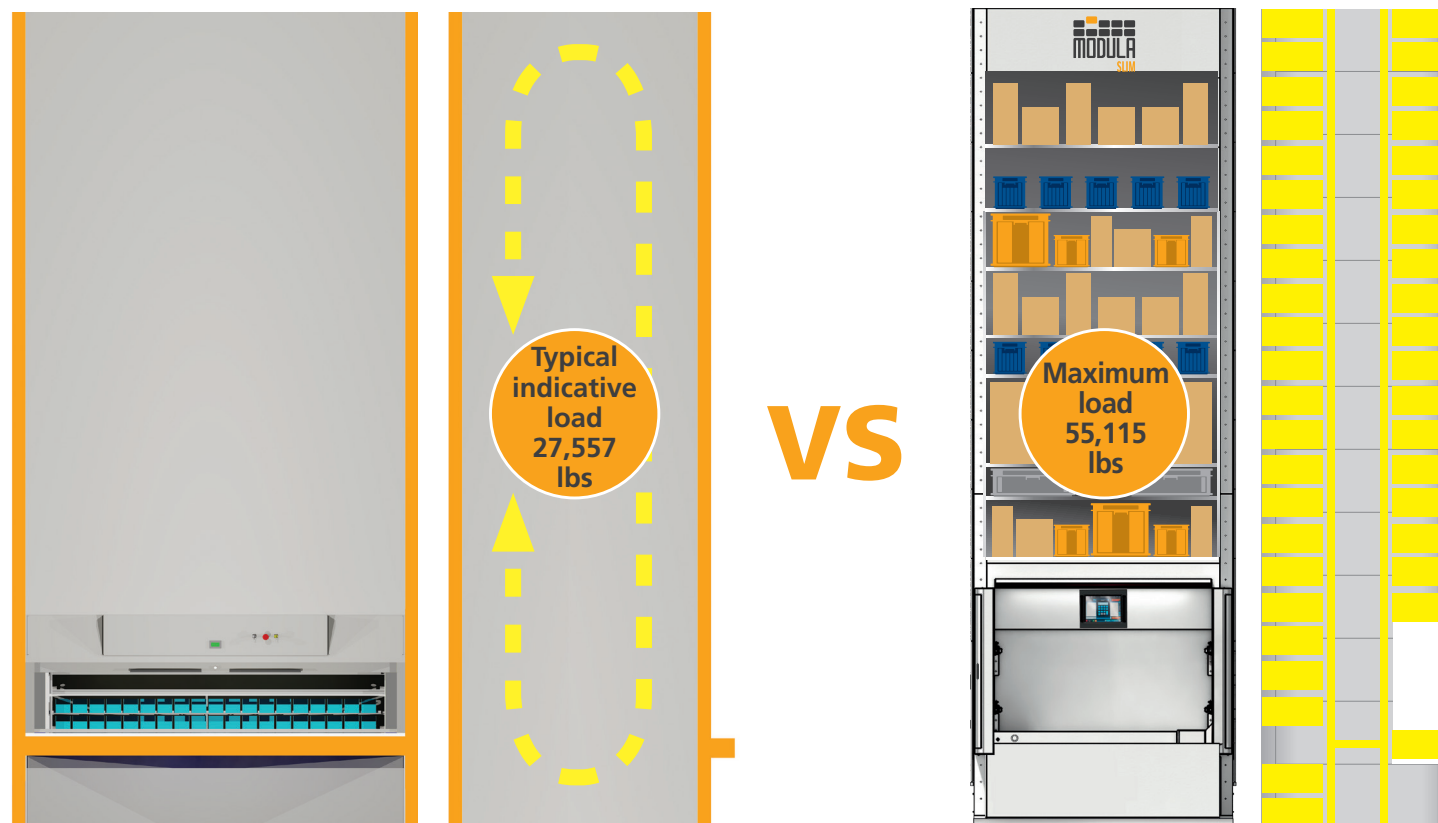
Trays using our available subdividers

# Have you ever seen such flexibility?

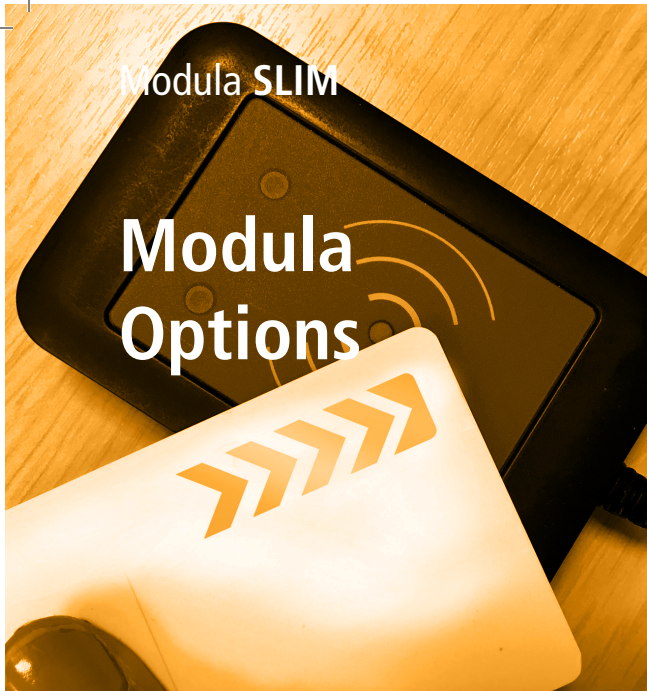
Choose dynamic storage without fixed heights and with a truly SLIM depth.

- 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

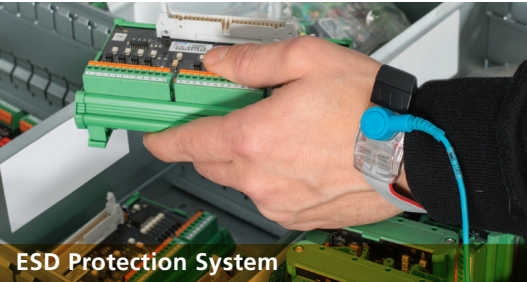


Magnetic Badge Reader



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  
BODEGAS JOSE ESTEVEZ  
COCA COLA  
CONTRI SPUMANTI  
GINESTET  
MOTHER PARKERS  
NATURAL WATERS OF VITI  
NESTLE WATERS  
PEPSICO  
SPENDRUPS  
SUNTORY

Bangladesh  
Spain  
Belgium, USA  
Italy  
France  
USA  
Fiji  
UK  
USA, Australia, UK, Germany, Brazil  
Sweden  
Mexico



## MECHANICAL METALLURGICAL

ALSTOM TRANSPORT INDIA  
BIESSE  
BONFIGLIOLI RIDUTTORI  
SATURN FASTENERS

India  
Italy, USA, Malaysia  
Italy, India, USA, China  
USA



## AUTOMOTIVE

AUDI  
BMW  
BREMBO  
BRIDGESTONE CANADA  
CNH INDUSTRIAL  
CONTINENTAL  
FCA  
FERRARI  
TRELLEBORG  
GOODYEAR  
HARLEY DAVIDSON  
JAGUAR  
MASERATI  
MICHELIN  
PEUGEOT-CITROEN  
PORSCHE  
RENAULT  
SUBARU  
VOLKSWAGEN

Mexico, Belgium, Spain  
China, Belgium, Germany, Mexico, Canada, UK  
Italy, Poland, China, Czech Rep., USA  
Canada  
Spain, Italy, Belgium, Netherlands  
USA, Germany  
Brazil, Poland, Italy, Serbia  
Italy  
UK  
Germany, Canada  
USA  
Belgium  
Italy  
France  
France  
Germany  
France  
USA, Canada  
Germany, China, Spain, Argentina



## CHEMICAL PHARMACEUTICAL BIOMEDICAL

GLAXOSMITHKLINE  
INNOMED  
INTAS PHARMACEUTICALS  
JOHNSON & JOHNSON  
ORFIT

Italy, UK, USA  
USA  
India  
USA, Brazil  
Belgium



## ELECTRONICS

BHARAT ELECTRONICS  
EATON CONTROLS  
PT INFINEON  
SIEMENS  
WURTH

India  
Mexico  
Singapore  
France, India, Mexico  
Germany, Slovakia



## HYDRAULIC PNEUMATIC

BOSCH REXROTH  
WALVOIL  
GUNTER TATA HUOTECHNIKA  
MECANIZADOS ALCOY

Mexico, Germany, USA, Italy  
Italy, USA  
Hungary  
Spain



## AGRICULTURAL MACHINERY

CNH INDUSTRIAL  
KOMATSU  
JOHN DEERE  
RANGER INDUSTRIES

Brazil, Italy, Spain, Belgium  
Italy  
USA  
USA



## TRANSIT

METROPOLITAN TRANSPORTATION AUTHORITY  
NEW YORK CITY TRANSIT AUTHORITY  
SNCF  
TORONTO TRANSIT COMMISSION

USA  
USA  
France  
Canada



## PLASTICS



## FOOD



## AVIATION AEROSPACE



## CERAMICS



## APPAREL



## COSMETICS



## OPTICAL



## JEWELRY



## ENERGY OIL & GAS



## PULP & PAPER



## DEFENSE



## SUPERMARKET & GROCERY



## HOME FURNISHINGS



## PACKAGING

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

CHOBANI USA  
GRISSIN BON Italy  
OISHI - LIWAYWAY CHINA China

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

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

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

AIR-VAL INTERNATIONAL Spain  
IBERCHEM AROMAS Spain  
L'OREAL China  
MARIA GALLAND Germany  
RUSI COSMETIC Germany

ALCON USA  
BUHLER LEYBOLD OPTICS China  
LUXOTTICA Italy  
MEKRA LANG Germany

LUCE BIANCA Italy  
MIDAS CHAIN USA  
OTTAVIANI INTERNATIONAL Italy  
PERLUNICA Italy

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

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

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

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

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

AETNA GROUP USA  
POPLAST Italy  
SOFLOG France  
TETRA PAK Italy

# Modula Around the Globe.



Modula is present in 5 continents with dealers and branches located in over 30 countries.

**Modula Inc.**  
**US HEADQUARTERS**  
90 Alfred A. Plourde Parkway  
Lewiston, ME 04240 - USA  
Tel. + 1.207.440.5100  
Fax + 1.207.786.0271  
[info.usa@modula.com](mailto:info.usa@modula.com)  
[www.modula.com](http://www.modula.com)

**Modula S.p.A**  
**ITALY HEADQUARTERS**  
Via San Lorenzo, 41  
42013 Salvaterra di Casalgrande (RE) - ITALY  
Tel. +39 0522 774111  
Fax +39 0522 774175  
[info@modula.com](mailto:info@modula.com)  
[www.modula.com](http://www.modula.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.

