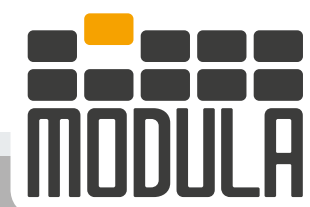




Modula SLIM

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?

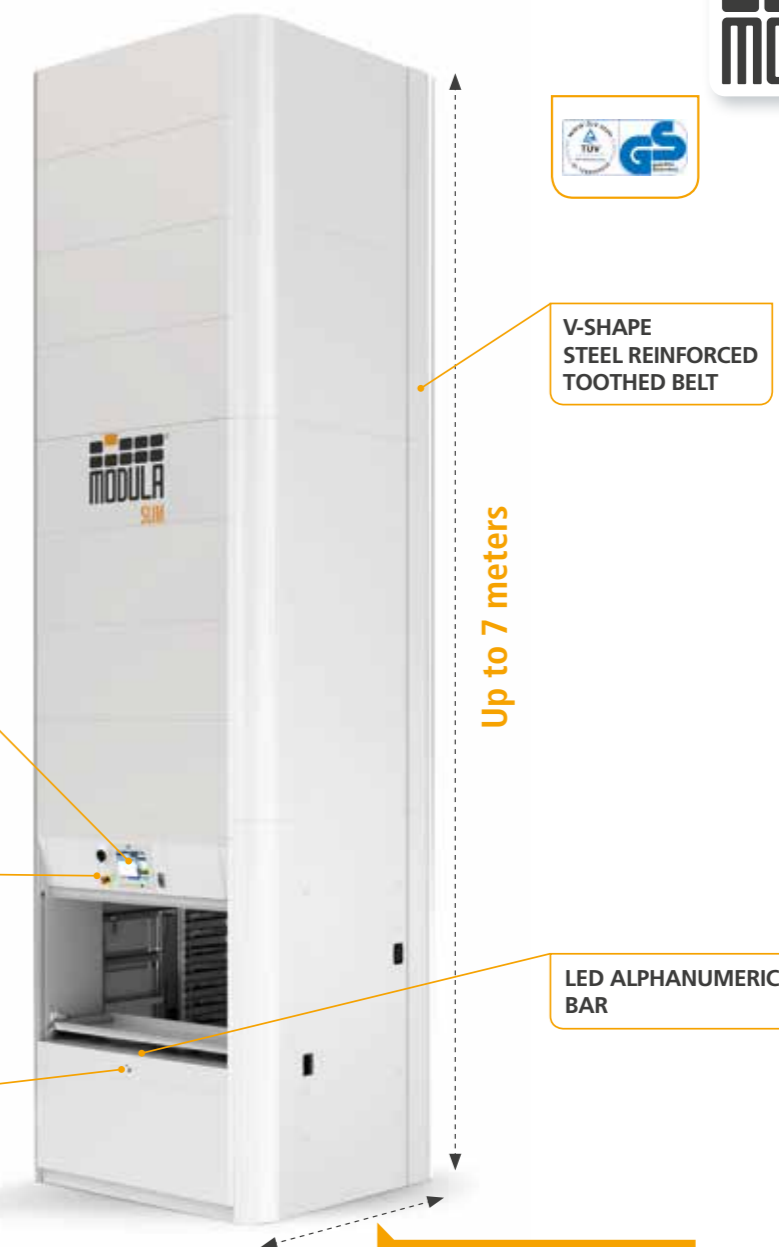
You can store all sorts of materials and products in your Modula Slim: loose materials, containers (boxes, bins, packs, cartons, cases), small items, spare parts, coils, flasks.



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



1,6 m depth

Technical Specifications

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

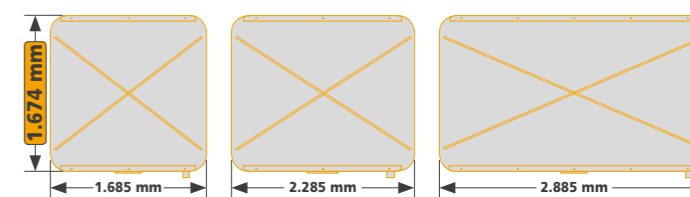
Types of bay:
internal with single delivery level

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

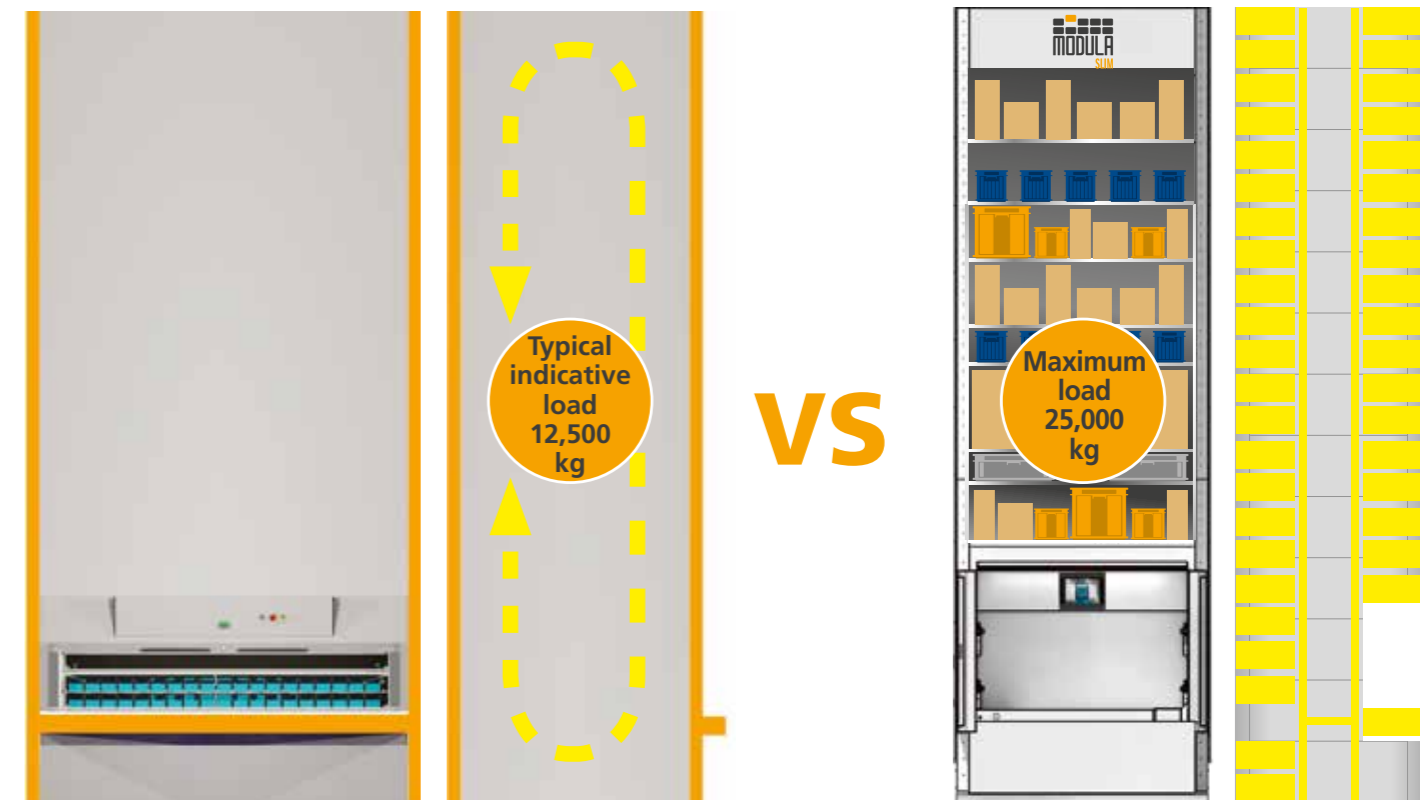


Trays with subdividing accessories

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.



Modula Options

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.



Tray accessories

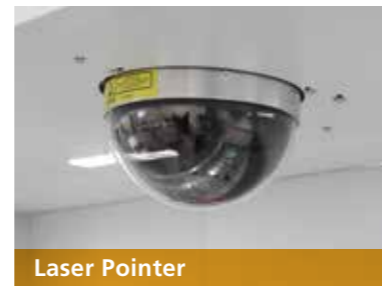
VISUAL AIDS These give a visual indication of the location of the requested item and speed up picking and refilling operations. They guide the operator to the location of the items within the tray and noticeably reduce errors.



LED bar



Alphanumeric bar



Laser Pointer

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.



RFID Reader



Magnetic badge Reader



EKS Reader

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.



ESD protection system



1D/2D barcode Reader



Put to Light

Some Modula references



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



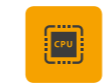
AUTOMOTIVE

- 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



ELECTRICAL ELECTRONIC

- 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



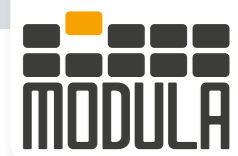
AGRICULTURAL MACHINERY

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



TRANSPORT

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



PLASTIC

- 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



AERONAUTIC

- 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 USA
- SACMI Italy, Spain, Mexico



CLOTHING

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



COSMETICS

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



OPTICAL

- ALCON USA
- BUHLER LEYBOLD OPTICS China
- LUXOTTICA Italy
- MEKRA LANG Germany



JEWELLERY

- 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
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- DLA-AVIATION USA
- U.S.A.F. - MCCONNELL AIR FORCE BASE USA
- U.S. AIR FORCE DOVER AFB USA



SUPERMARKET

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



FURNITURE

- 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 Worldwide presence



Modula is present in 5 continents with dealers and branches located in over 50 countries.

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