

USA



Modula WORLD

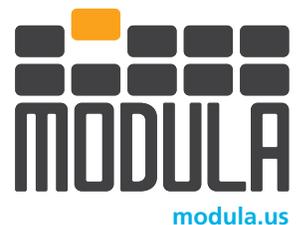
Think Vertical, Think Modula

★ PROUDLY ★



MADE IN USA

from US & Imported Components



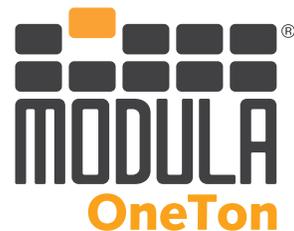
MODULA

is a leading worldwide manufacturer of automated storage technologies.

Our products are designed to save space and time, while improving efficiency. There is a Modula solution for every requirement to optimize storage.



Vertical Lift Modules that solve your space, security and safety issues.



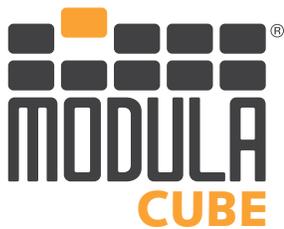
Vertical Lift Modules featuring trays with the greatest load capacity ever offered.



Vertical Lift Modules for storing lighter weight items in a reduced footprint.



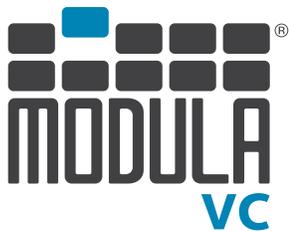
Warehouse Management Software.



Automated storage modules offering all of the advantages of traditional VLM's, stored horizontally.



Horizontal carousels that increase productivity and accuracy in your order picking operations.



Vertical carousels that maximize storage density in the smallest overall footprint.

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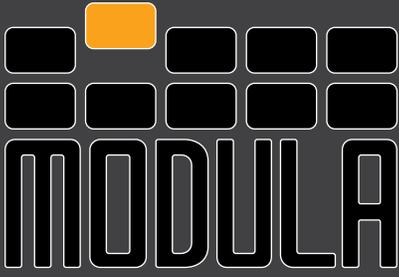
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REFERENCES



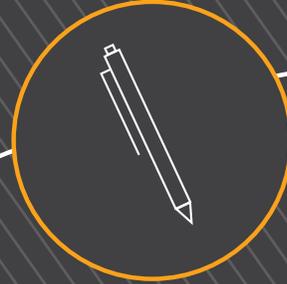
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Think Vertical, Think Modula

WE DESIGN



WE SERVICE



WORKING



WE TRAIN

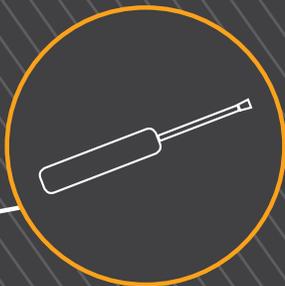
WE PRODUCE



WE SELL



WITH YOU...



WE INSTALL

Salvaterra, Italy

Italian headquarters



Our manufacturing facility and Italian headquarters, located in Salvaterra, Reggio Emilia, Italy.





Automated precision welding processes.



Cutting edge manufacturing using automated punching and bending.



Production and assembly areas.

Lewiston, ME, USA

US headquarters



Automated punching and bending.



3D Laser tube cutting.



Automated precision welding process.





Our manufacturing facility and US headquarters, located in Lewiston, ME, USA.

MODULA is part of System Group

System Group is a large international company that has been in business for over 40 years, working in a variety of industrial markets.

26

countries

34

companies

44

offices

1400+

employees



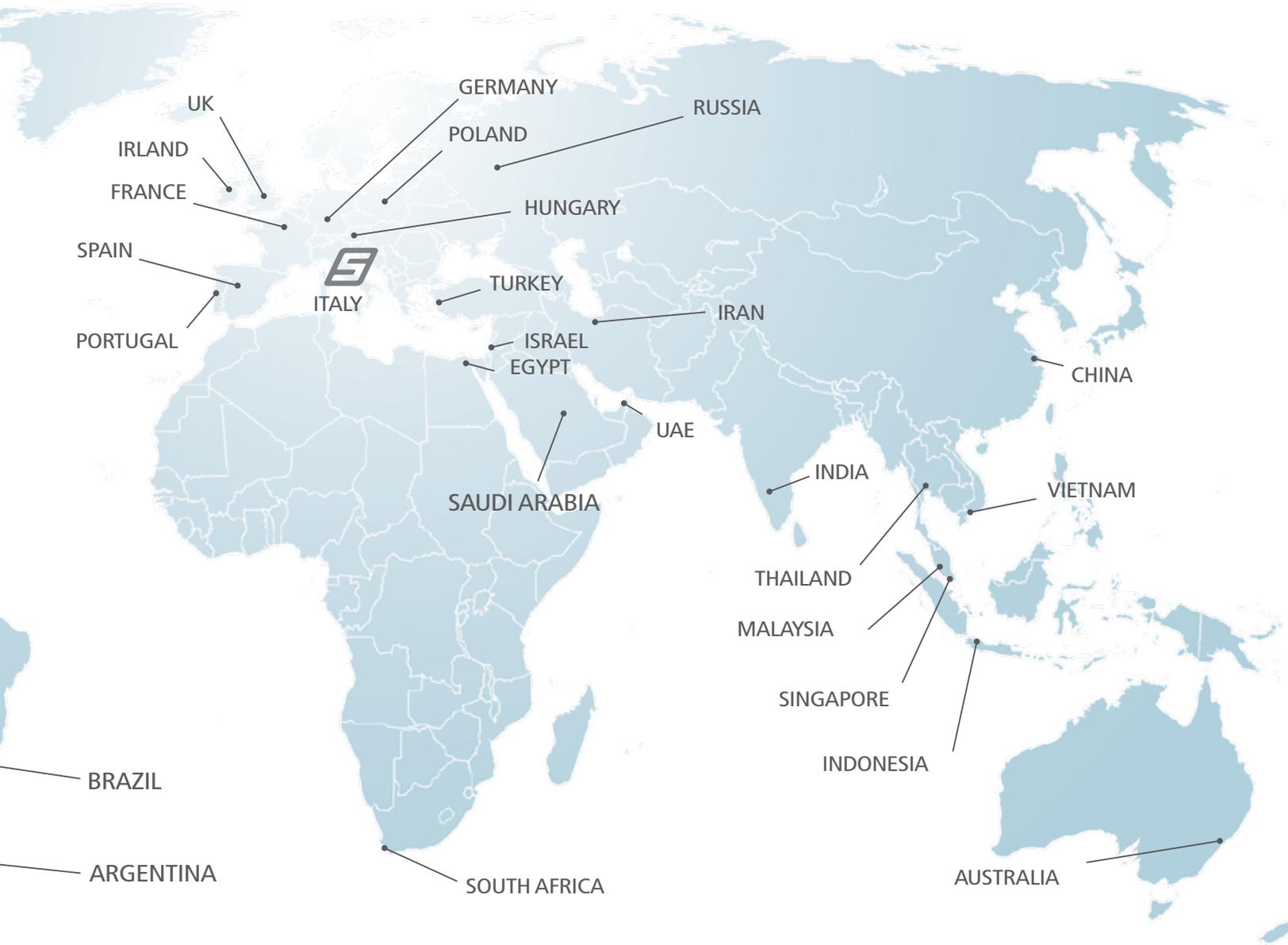
System Group's global headquarters in Fiorano, MO, Italy.

Research, development and technological innovation are the key points that guide the company. System has been granted nearly 200 patents and each year 5% of its turnover are applied to research and development.



Modula's worldwide presence





A technological center with infinite possibilities



Automated warehouse technologies



Automated guided vehicles



Ceramic printing technologies



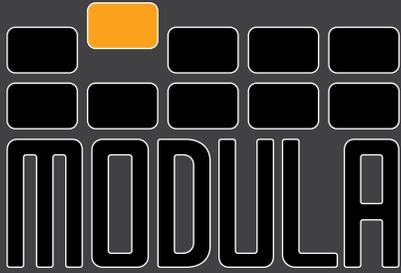
Automation and control systems



System has developed numerous business units to meet the requirements of our many clients, including Ceramics, Packaging, Logistics and Electronics.



System technologies for ceramics pressing.



Think Vertical, Think Modula

Do you need to recover space in your facility?

Do you want to improve your efficiency?

Choose a vertical solution to

- Improve productivity
- Recover space
- Enhance ergonomics
- Grow your business (bottom line)

 **LEMA**
LITHIUM BATTERIES RECHARGEABLE



Vertical Technologies

Developed to utilize all of the available vertical space and recover floor space, vertical technologies are perfect for clean, safe, secure and productive storage.

- Fewer errors
- Increased user safety
- Less wasted floor space
- No more cluttered storage
- Fewer delays in order processing
- More control over your items

The ideal solution for your business

Before Modula



After



Floor Space Recovery



Up To **90%**

Main Benefits



1. RECOVER SPACE:

Modula's vertical structure with unit heights up to 46 feet tall, combined with its compact footprint allows users to recover up to 90% of floor space in their facility.



2. SAVE TIME:

Following the goods-to-user principle, operators are able to pick goods directly from the access opening area. There is no longer a need to walk aisles searching for items.



3. REDUCE RISKS:

Since operators no longer need to move as they did in standard warehouses, where they had to access elevated areas (shelves or mezzanines) and/or use stairs and trolleys. Potentially hazardous situations for the operators are avoided.



4. INCREASE SECURITY:

Access to items is controlled via password only to authorized operators. This increases operator accountability and thus item security. Every item accessed is able to be traced and it is even possible to limit access to specific trays.



5. IMPROVE ACCURACY:

Thanks to simple and intuitive visual picking aids, operators are able to quickly and easily identify the items needed to be picked or replenished from the VLM, leading to significant time and money savings.



6. BOOST INVENTORY MANAGEMENT:

Every time items are picked or replenished, operators are shown clear and useful information on current stock levels. Any adjustments to inventory levels if required is an extremely easy task for users.

LIFT TECHNOLOGIES

Save space & time, improve safety & flexibility

The vertical lift modules represent the most flexible solution for most of the industrial storage needs. They are made of a sturdy, self-supporting structure to house the trays, a central elevator to move them and one or more operators bays for items picking and replenishment.

Thanks to our know-how and expertise developed in more than 20 years in the Lift business we now have a full "state of the art" range of products to fulfill every customer's needs.

Modula's picking bay area:

FULLY AUTOMATED

FULLY PROTECTED

SAFE FOR USERS



THROUGHPUT OF UP TO 120 TRAYS/HOUR



CERTIFICATION

TRAY ADJUSTABILITY

1.0" 1.0" 1.0"

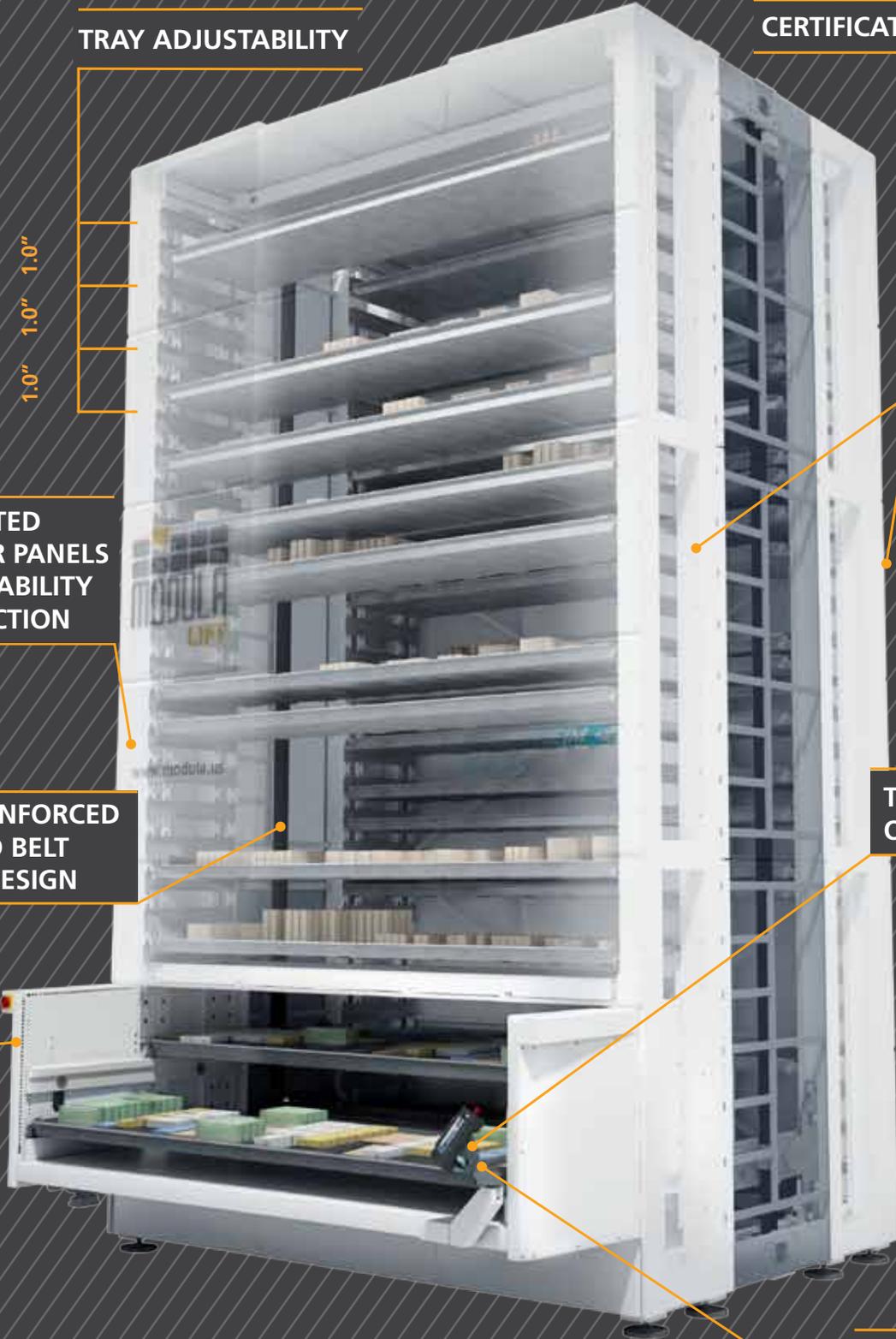
STEEL INTERNAL
FRAME STRUCTURE

PRE-COATED
EXTERIOR PANELS
FOR DURABILITY
& PROTECTION

TOUCH SCREEN
OPERATOR CONSOLE

STEEL REINFORCED
TOOTHED BELT
LIFTING DESIGN

USER FRIENDLY
SOFTWARE INTERFACE



OUR ADVANTAGE: Why choose Modula LIFT technologies?

BAY CONFIGURATIONS: INTERNAL OR EXTERNAL BAY TYPES, WITH SINGLE OR DUAL DELIVERY

Modula vertical lift modules offer multiple different bay configurations in order to meet any customer's requirements, all while ensuring complete safety and ergonomics for operators.

The **internal bay** is the ideal configuration for applications with limited floor space.

The **external bay**, with dual-delivery, offers the most ergonomic workspace for operators. It is able to provide additional benefits when used in conjunction with external picking aids such as cranes and/or mechanical manipulators to access heavy or large items stored.

Both the internal and external bay types are able to be configured with either single delivery or dual delivery. **Single delivery** is well suited for applications with less stringent throughput requirements or when picking times are performed quickly. Modula's true **dual tray delivery** system provides operators with greatly increased productivity by reducing wait times while the next tray is retrieved. The next tray in the picking queue is presented to the operator seconds after the previous tray operations are completed. Used in conjunction with the external bay, the nearly instantaneous tray exchange provides greatly increased picking productivity.



SINGLE DELIVERY INTERNAL



SINGLE DELIVERY EXTERNAL



DUAL DELIVERY INTERNAL



DUAL DELIVERY EXTERNAL



OUR ADVANTAGE: why choose Modula LIFT technologies?

COPILOT OPERATOR "CONSOLE"

Modula units come equipped with a rugged Copilot color touchscreen operator interface, which is designed for harsh industrial environments used to access all of the available functions of the units.

The Copilot's graphical color interface is simple and intuitive to use, providing ergonomic use by operators throughout the day.

Copilot is located at an easy to access, ergonomic height next to the picking bay. Its proximity to picking operations is convenient and reduces the possibility of interference with safety barriers.

The Copilot is also equipped with an emergency stop push button that can easily be accessed and reset to stop the unit, in case of any risk.



SLIDING "CONSOLE"

The Copilot is also available in a sliding configuration, which mounts the console on a rail and allows it to be kept with the operator at all times for reduced walking while they are working.



MAXIMUM LOAD CAPACITY FOR EVERY TRAY WIDTH

All Modula VLM units guarantee unmatched performance and maximum tray load capacities, regardless of the width and depth of the tray.

Up **2,200 lbs**
 To 
 load capacity



INCREASED PERFORMANCE FOR HIGH THROUGHPUT

Modula unit's external cladding features pre-coated panels with a PVC surface, providing a clean and aesthetic appearance. Vertical lifting is accomplished using a steel reinforced toothed belt design, which provides a quiet and highly reliable method for vertical tray movements. Combined with the correct bay configuration, Modula WMS software and various visual picking aid options, customers gain the best and most complete overall solution for their storage automation.



OUR ADVANTAGE: why choose Modula LIFT technologies?

OPERATOR SAFETY

Modula vertical lift modules are all TÜV-GS certified for safety. This is because our products comply to all international regulations on safety.

Our machines are equipped with physical safety barriers and safety curtains to give 100% protection to the operator.



MODULA® WMS SOFTWARE SUITE

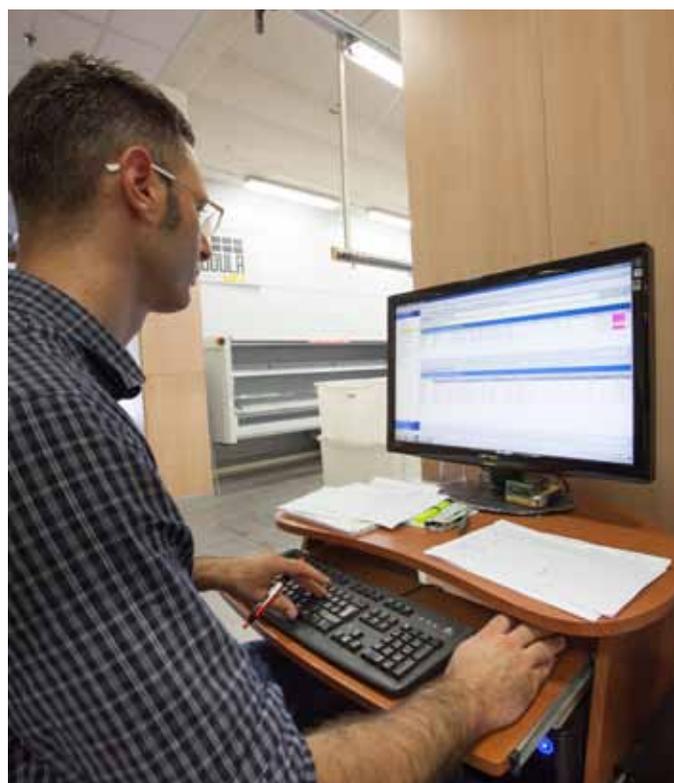
Modula WMS is a fully featured warehouse management software that can easily be used to manage the space and utilization of Modula technologies, or as a standalone software.

Modula WMS supports both automated storage equipment, such as Modula Lift units as well as manual storage locations.

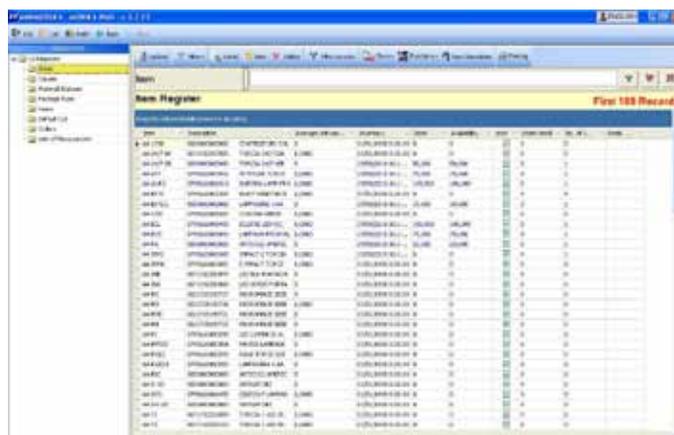
It is developed and supported in-house to guarantee you with the best possible knowledge and support at anytime.

There are different licenses available, and different modules that can support the requirements of every type of application.

Our software includes a graphical user interface to manage the compartments and is easily integrated with ERP systems such as SAP, Oracle and others.



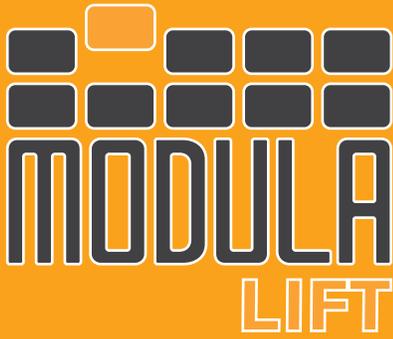
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LIFT TECHNOLOGIES







Modula LIFT
The Vertical Lift Module that solves
your space, safety and security
problems.


MODULA
LIFT

SYSTEM 
Group



Modula **LIFT**

Introduced more than 20 years ago, with thousands of installations world wide, Modula Lift is amongst the most advanced and reliable VLM units in the marketplace.

Modula is the ideal storage solution for industrial products, components and spare parts for all possible environments and industries. Many companies have chosen Modula to help organize and improve their work-flows, thanks to its flexibility, wide range of models available, its superior design and ease of use.

Modula units can be used stand-alone or with the available WMS software to manage the space and utilization of units, increasing productivity further.

We also offer a wide range of options and accessories to provide increased speed, ease of use and productivity in your operation.

Modula LIFT is available in the followings models:

- **MA - MAD**
- **MC - MCD**
- **MX - MXD**
- **ML - MLD**

9,050 sq. ft.

of traditional storage in a small footprint

154,500 lbs

gross unit load capacity



Technical highlights

Unit heights: **from 10' – 10" (3,300 mm) to 46' – 3" (14,100 mm)**

Unit height increments on: **7.87" (200 mm)**

Tray storage adjustability: **1.0" (25 mm)**

Tray widths: **74.80" (1,900 mm), 98.42" (2,500 mm), 122.05" (3,100 mm) & 161.41" (4,100 mm)**

Tray depths: **25.75" (654 mm) & 33.74" (857 mm)**

Net tray payload capacities: **551 lbs (250 kg), 1,102 lbs (500 kg) and 1,653 lbs (750 kg)**

Net unit load capacity: **132,486 lbs (60,000 kg)**

Gross unit load capacity: **154,567 lbs (70,000 kg)**

Maximum height of stored materials: **27.36" (695 mm)**

Throughput: **up to 120 trays / hr. (depending on the unit's configuration)**

Operator interface: **rugged 10.4" color touchscreen operator control console**

Number of bays: **up to 3, also higher than ground and on the same side**

Type of bay: **internal or external with single or dual tray delivery**

Minimal energy consumption: **3kW vertical axis motor**

Automatic weight control at the intake of each tray

Dynamic allocation of trays depending on specific materials height

Internal galvanized steel structure

Vertical axis driven by 2 steel reinforced toothed belts

Extractor's vertical guidance system with 8 HDPE wheels for each side

Modula LIFT can be integrated with

Modula WMS

WMS software solutions are available for all Modula units, designed to manage and improve every storage solution

Modula OPTIONS

A wide range of dedicated options are available for Modula Lift units, to further increase productivity and ease of use.

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LIFT Models

MA & MA-D



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in/mm)
MA25	74.80 / 1,900	25.75 / 654	1.77 - 2.75 - 4.72 / 45 - 70 - 120	551 / 250	91.22x100.63 / 2,317x2,556	91.22x127.8 / 2,317x3,246
MA25D	74.80 / 1,900	33.74 / 857	1.77 - 2.75 - 4.72 / 45 - 70 - 120	551 / 250	91.22x124.61 / 2,317x3,165	91.22x159.76 / 2,317x4,058
MA50	74.80 / 1,900	25.75 / 654	2.75 - 4.72 / 70 - 120	1,102 / 500	91.22x100.63 / 2,317x2,556	91.22x127.8 / 2,317x3,246
MA50D	74.80 / 1,900	33.74 / 857	2.75 - 4.72 / 70 - 120	1,102 / 500	91.22x124.61 / 2,317x3,165	91.22x159.76 / 2,317x4,058
MA75	74.80 / 1,900	25.75 / 654	2.75 - 4.72 / 70 - 120	1,653 / 750	91.22x100.63 / 2,317x2,556	91.22x127.8 / 2,317x3,246
MA75D	74.80 / 1,900	33.74 / 857	2.75 - 4.72 / 70 - 120	1,653 / 750	91.22x124.61 / 2,317x3,165	91.22x159.76 / 2,317x4,058

Modula reserves the right to make variations without prior notice

MC & MC-D



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in/mm)
MC25	98.42 / 2,500	25.75 / 654	1.77 - 2.75 - 4.72 / 45 - 70 - 120	551 / 250	114.84x100.63 / 2,917x2,556	114.84x127.8 / 2,917x3,246
MC25D	98.42 / 2,500	33.74 / 857	1.77 - 2.75 - 4.72 / 45 - 70 - 120	551 / 250	114.84x124.61 / 2,917x3,165	114.84x159.76 / 2,917x4,058
MC50	98.42 / 2,500	25.75 / 654	2.75 - 4.72 / 70 - 120	1,102 / 500	114.84x100.63 / 2,917x2,556	114.84x127.8 / 2,917x3,246
MC50D	98.42 / 2,500	33.74 / 857	2.75 - 4.72 / 70 - 120	1,102 / 500	114.84x124.61 / 2,917x3,165	114.84x159.76 / 2,917x4,058
MC75	98.42 / 2,500	25.75 / 654	2.75 - 4.72 / 70 - 120	1,653 / 750	114.84x100.63 / 2,917x2,556	114.84x127.8 / 2,917x3,246
MC75D	98.42 / 2,500	33.74 / 857	2.75 - 4.72 / 70 - 120	1,653 / 750	114.84x124.61 / 2,917x3,165	114.84x159.76 / 2,917x4,058

Modula reserves the right to make variations without prior notice

MX & MX-D



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in/mm)
MX25	122.05 / 3,100	25.75 / 654	1.77 / 2.75 / 4.72 - 45/70/120	551 / 250	138.46x100.63 / 3,517x2,556	138.46 x 127.8 / 3,517 X 3,246
MX25D	122.05 / 3,100	33.74 / 857	1.77 / 2.75 / 4.72 - 45/70/120	551 / 250	138.46x124.61 / 3,517x3,165	138.46 x 159.76 / 3,517 X 4,058
MX50	122.05 / 3,100	25.75 / 654	2.75 / 4.72 - 70/120	1,102 / 500	138.46x100.63 / 3,517x2,556	138.46 x 127.8 / 3,517 X 3,246
MX50D	122.05 / 3,100	33.74 / 857	2.75 / 4.72 - 70/120	1,102 / 500	138.46x124.61 / 3,517x3,165	138.46 x 159.76 / 3,517 X 4,058
MX75	122.05 / 3,100	25.75 / 654	2.75 / 4.72 - 70/120	1,653 / 750	138.46x100.63 / 3,517x2,556	138.46 x 127.8 / 3,517 X 3,246
MX75D	122.05 / 3,100	33.74 / 857	4.72 - 120	1,653 / 750	138.46x124.61 / 3,517x3,165	138.46 x 159.76 / 3,517 X 4,058

Modula reserves the right to make variations without prior notice

ML & ML-D



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in/mm)
ML25	161.41 / 4,100	25.75 / 654	2.75 - 4.72 / 70 - 120	551 / 250	177.83x100.63 / 4,517x2,556	177.83x127.8 / 4,517x3,246
ML25D	161.41 / 4,100	33.74 / 857	2.75 - 4.72 / 70 - 1200	551 / 250	177.83x124.61 / 4,517x3,165	177.83x159.76 / 4,517x4,058
ML50	161.41 / 4,100	25.75 / 654	4.72 / 120	1,102 / 500	177.83x124.61 / 4,517x3,165	177.83x127.8 / 4,517x3,246
ML50D	161.41 / 4,100	33.74 / 857	4.72 / 120	1,102 / 500	177.83x124.61 / 4,517x3,165	177.83x159.76 / 4,517x4,058
ML75	161.41 / 4,100	25.75 / 654	4.72 - 120	1,653 / 750	177.83x100.63 / 4,517x2,556	177.83x127.8 / 4,517x3,246
ML75D	161.41 / 4,100	33.74 / 857	4.72 - 120	1,653 / 750	177.83x124.61 / 4,517x3,165	177.83x159.76 / 4,517x4,058

Modula reserves the right to make variations without prior notice

Modula LIFT







Modula OneTon
**The widest range of available
tray sizes, with the greatest load
capacity ever offered.**



Modula OneTon

Modula OneTon has the same models, functions and features as Modula Lift units and it is the ideal solution for storing heavier items and materials.

Sharing its design with the original Modula Lift, all Modula OneTon units provide a maximum tray load capacity of 2,200 lbs (990 kg) per tray for the entire range of models, regardless of the tray width or depth.

Modula OneTon is available in the following models:

- MA - MAD
- MC - MCD
- MX - MXD
- ML - MLD



Real heavy
duty...

2,200 lbs
tray load capacity



Technical highlights

Unit heights: **from 10' – 10" (3,300 mm) to 46' – 3" (14,100 mm)**

Unit height increments on: **7.87" (200 mm)**

Tray storage adjustability: **1.0" (25 mm)**

Tray widths: **73.23" (1,860 mm), 96.85" (2,460 mm), 120.47" (3,060 mm) & 159.84" (4,060 mm)**

Tray depths: **25.75" (654 mm) & 33.74" (857 mm)**

Net tray payload capacity: **2,200 lbs (990 kg)**

Net unit load capacity: **132,486 lbs (60,000 kg)**

Gross unit load capacity: **154,567 lbs (70,000 kg)**

Maximum height of stored materials: **27.36" (695 mm)**

Throughput: **up to 60 trays/hr. (depending on the unit's configuration)**

Operator interface: **rugged 10.4" color touchscreen operator control console**

Number of bays: **up to 3/ maximum 2 on the same side**

Type of bay: **internal or external bay, single-delivery or dual-delivery**

Minimal energy consumption: **3kW vertical axis motor**

Automatic weight control at the intake of each tray

Dynamic allocation of trays depending on specific materials height

Internal galvanized steel structure

Vertical axis driven by 8 steel reinforced toothed belts

Extractor's vertical guidance system with 8 HDPE wheels for each side

Modula OneTon can be integrated with

Modula WMS

WMS software solutions are available for all Modula units, designed to manage and improve every storage solution.

Modula **OPTIONS**

A wide range of dedicated options are available for Modula OneTon units, to further increase productivity and ease of use.

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OneTon Models

MA & MA-D



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)
MA	73.23 / 1,860	25.75 / 654	4.72 / 120	2,200 / 990	91.22x100.63 / 2,317x2,556	91.22 x 127.8 / 2,317 x 3,246
MA-D	73.23 / 1,860	33.74 / 857	4.72 / 120	2,200 / 990	91.22x100.63 / 2,317x2,556	91.22 x 127.8 / 2,317 x 3,246

Modula reserves the right to make variations without prior notice

MC & MC-D



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)
MC	96.85 / 2,460	25.75 / 654	4.72 / 120	2,200 / 990	114.84x100.63 / 2,917x2,556	114.84 x 127.8 / 2,917x3,246
MC-D	96.85 / 2,460	33.74 / 857	4.72 / 120	2,200 / 990	114.84x124.61 / 2,917x3,165	114.84x159.76 / 2,917x4,058

Modula reserves the right to make variations without prior notice

MX & MX-D



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)
MX	120.47 / 3,060	25.75 / 654	4.72 / 120	2,200 / 990	138.46x100.63 / 3,517x2,556	138.46x127.8 / 3,517x3,246
MX-D	120.47 / 3,060	33.74 / 857	4.72 / 120	2,200 / 990	138.46x124.61 / 3,517x3,165	138.46x159.76 / 3,517x4,058

Modula reserves the right to make variations without prior notice

ML & ML-D



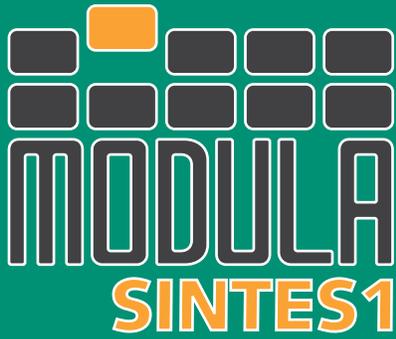
Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)
ML	159.84 / 4,060	25.75 / 654	5.71 / 145	2,200 / 990	177.83x100.63 / 4,517x2,556	177.83x127.80 / 4,517x3,246
ML-D	159.84 / 4,060	33.74 / 857	5.71 / 145	2,200 / 990	177.83x124.61 / 4,517x3,165	177.83x159.76 / 4,517x4,058

Modula reserves the right to make variations without prior notice

Modula OneTon







Modula SINTES1

The ideal solution for lightweight and smaller items in a reduced footprint.

-  Fast
-  Easy
-  Smart


MODULA
SINTESI.7

www.modula.us


SICK



Modula **SINTES1**

The Sintes1 is a vertical lift module that has been tailor-made for small to medium-sized applications. It is ideal for storing and picking items such as electronic components, pharmaceuticals and tooling. The Sintes1 optimizes the available space in your facility, allowing you to recover every square foot possible.

Modula Sintes1 units feature a modern and aesthetic appearance, with a coated steel internal frame structure that is clad in pre-coated exterior panels for durability and protection, all of which are entirely manufactured using a state of the art production line.

Why Modula Sintes1?

- Storage of smaller and/or lightweight items.
- Perfect for smaller sized applications.
- For applications with reduced room height available.
- Electronics, pharmaceutical and tooling applications.
- High throughput.
- Limited investment.

Modula Sintes1 is available in two models:

- **SINTES1.3**
- **SINTES1.7**

Simply
Intelligent



Technical highlights

Unit heights: **from 8' – 6" (2,600 mm) to 23' – 4" (7,100 mm)**

Unit height increments on: **3.94" (100 mm)**

Tray storage adjustability: **1.0" (25 mm)**

Tray widths: **51.18" (1,300 mm) & 66.93" (1,700 mm)**

Tray depths: **25.75" (654 mm)**

Net tray payload capacity: **441 lbs (200 kg)**

Net unit load capacity: **55,115 lbs (25,000 kg)**

Gross unit load capacity: **66.243 lbs (30,000 kg)**

Maximum height of stored materials: **27.62" (680 mm)**

Throughput: **up to 140 trays/hr**

Operator interface: **rugged 10.4" color touchscreen operator control console**

Number of bays: **up to 2 only on ground level**

Type of bay: **internal or external, single or dual tray delivery**

Minimal energy consumption: **1.5 kW vertical axis motor**

Automatic weight control at the intake of each tray

Dynamic allocation of trays depending on specific materials height

Vertical axis driven by 4 steel reinforced toothed belts

Extractor's vertical lifting system guided with 4 urethane rollers for each side of the elevator

Modula SINTES1 can be integrated with

Modula WMS

WMS software solutions are available for all Modula units, designed to manage and improve every storage solution.

Modula OPTIONS

A wide range of dedicated options are available for Modula Sintes1 units, to further increase productivity and ease of use.

discover more
page **84**

discover more
page **56**



SINTES1 Models

Sintes1.3



Model	Tray Width (in) (mm)	Tray Depth (in) (mm)	Tray wall Height (in) (mm)	Maximum Tray Load Capacity (lbs)	Unit Footprint INTERNAL BAY (Width x Depth) (in) (mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in) (mm)
SINTES1.3	51.18	25.75	1.22-2.20	441	64.96x93.54	64.96x122.09
	1,300	654	31-56	200	1,650x2,376	1,650x3,101

Modula reserves the right to make variations without prior notice

Sintes1.7



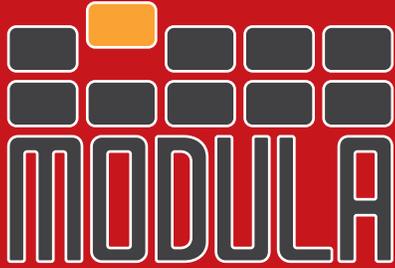
Model	Tray Width (in) (mm)	Tray Depth (in) (mm)	Tray wall Height (in) (mm)	Maximum Tray Load Capacity (lbs)	Unit Footprint INTERNAL BAY (Width x Depth) (in) (mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in) (mm)
SINTES1.7	66.93	25.75	1.22-2.20	441	80.71x93.54	80.71x122.09
	1,700	654	31-56	200	2,050x2,376	2,050x3,101

Modula reserves the right to make variations without prior notice

Modula **SINTES1**







Modula **OPTIONS**
**Options and accessories to improve
any application**



X-Axis LED bar



Alphanumeric LED bar



Laser pointer



Badge reader



EKS reader



Put-to-light



Tray accessories



Piece counting scale



Label printer



Bar code reader



Sliding console



Weight distribution plate



ESD protection



Automatic door



Modula Green



Tray removal & transportation cart



Telescopic internal bay

Modula **OPTIONS**

Available Options	LIFT	OneTon	SINTES1	WMS REQUIRED	NOTES
X-Axis LED bar	•	•	•	•	
Alphanumeric LED bar	•	•	•	•	
Laser pointer	•	•	•	•	
Badge reader	•	•	•	•	not avail. with EKS reader
EKS reader	•	•	•	•	not avail. with Badge reader
Put-to-light	•	•	•	•	
Tray partitions, dividers, extensions	•	•	•		
Piece counting scale	•	•	•	•	
Label printer	•	•	•	•	
Barcode reader	•	•	•	•	
Sliding Console	•	•			not with telescopic bay and cart
Weight distribution plates	•	•	•		
ESD protection system	•	•	•		not with telescopic bay and cart
Automatic door	•	•	•		
Modula green	•	•	•		
Telescopic internal bay	•				internal bay only / not with ESD protection system, cart and sliding console
Tray removal & transportation cart	•		•		internal bay only / not with ESD protection system, telescopic bay and sliding console

VISUAL PICKING AIDS

Laser pointer

The laser pointer provides the ability to point directly to the location of the item required. The laser pointer works on two axes, with the picking location indicated by the intersection of a red laser line which allows users to quickly locate the correct location across the tray's width and a green laser spot which indicates the correct item location across the tray's depth.

The result is greatly increased picking accuracy and speed as operators are quickly and easily able to locate the correct items.



USER AUTHENTICATION

Badge reader

The badge reader allows operators to quickly and easily use a badge to log into their role on Modula units. When the operator swipes their personal badge to access the unit, their credentials are automatically recognized and operations begin.

The badge reader is connected to the Copilot console via the available USB port for a quick and simple implementation. The result is that unauthorized access to units is prevented in the case where the standard unit login procedure with password is not sufficient.



EKS reader

The EKS reader is an electronic “key” reader, that allows operators to quickly and easily use an EKS key to log into their role on Modula units. When an operator places their personal EKS key into the reader, their credentials are automatically recognized and operations begin. When the EKS key is removed after operations are complete, the unit automatically logs out the operator to maintain security for items within the unit.

The EKS reader is ideal for demanding industrial applications, thanks in part to its robust construction and IP67 protection rating. The EKS reader is connected to the workstation PC running Modula WMS software via an Ethernet interface for a quick and simple implementation. Benefits of the EKS reader are similar to that of the badge reader, with the additional possibility to also control the user log-outs automatically when the EKS key is removed after picking has been completed.



ORDER PICKING SOLUTIONS

Put-to-light

The put-to-light system is designed to further improve operator productivity, allowing operators to increase the number of orders able to be processed at the same time in what is known as “batch picking”. The system provides the hardware to indicate the correct quantity and location for multiple orders as they are able to be processed simultaneously during picking operations. As operators pick a quantity of an item for multiple orders, the user is clearly shown where to put items for specific orders and the quantity to put.

The position and quantity displays are arranged on a bar which is available in 10 ft. lengths that are able to be connected together and to include the required number of displays to meet an applications requirements. Each di-

splay has the ability to display three possible colors (amber, green and red) for applications when multiple Modula units are in use to indicate to the operator which machine’s picks are to go to which location. The operator is able to pick items from one unit and then place them in the appropriate order location where the matching color light is displayed.

The display also indicates the quantity of pieces for each item which need to be put to the specific order locations and the operators are able to confirm the put by pressing a task complete button for each location after the put is made. The system is able to operate in either “batch” or “multi-order” modes depending on the operational requirements for specific clients.



TRAY ACCESSORIES

Partitions, dividers and tray side wall extensions

Modula's available tray accessories include tray slotting for tray accessories such as partitions and dividers as well as tray side wall extensions. Partitions and dividers allow users to easily and accurately sub-divide the tray into specific compartments for individual items to be stored within. Partitions and dividers are designed with superior flexibility in mind and both feature adjust-ability on 0.79" (20 mm) centers based on the slotting profile increments provided.

Tray layouts are able to easily be modified if needed based on the user's needs by simply moving the partitions and dividers to create location sizes that are a perfect fit for the specific item stored within. Tray side wall extensions are also available, which further extend the height of the tray's sidewalls for applications requiring additional retention for larger and/or loosely stored materials.



OPTIONS TO IMPROVE PRODUCTIVITY

Piece counting scale

The piece counting scale accessory allows operators to place a quantity of small items into the scale and based on the item's specific weight per piece, determine how many of the item have been picked or are to be replenishment by the operator.

Piece counting scales are available in multiple different weight ranges to meet any application's requirements. Scales are available in either single or double platform designs with weight capacities of 6, 13, 33 or 66 lbs. respectively.

The piece counting scale is the ideal accessory when large quantities of smaller items are stored and it is an essential tool for operators during their picking and replenishment operations. The result is increased speed and accuracy as operators no longer have to manually count out the quantity of items.



Label printer

The label printer quickly and easily prints labels for items and/or their shipping containers directly at the workstation area. Label printers allow operators to print customized adhesive labels and tags containing the information of the materials.

Operators simply enter the desired information using the Copilot operator console while picking and the label is printed as operations take place. Label printers are available in a variety of models depending on label type requirements to meet any application's needs.



OPTIONS TO IMPROVE PRODUCTIVITY

Barcode reader

The barcode reader allows operators to quickly and easily scan items as they are being picked or replenished for item verification. Barcode readers are often used when items have complex part numbers or may be difficult to distinguish from similar items for increased accuracy and assurance that the correct item has been selected by the operator.

Barcode readers may also be used to confirm orders or to log into the Modula unit by scanning an operator's unique badge barcode. Barcode readers are wireless units for ease of use and are available in either 1D or 2D versions to meet application requirements.



Sliding console

The sliding Copilot console allows operators to have the Copilot console with them at their picking location at all times. This further eliminates the need to walk back and forth to the console to confirm operations or to select the next tray or item to request. The result is greatly improved operator efficiency and a more pleasant working environment.



MISCELLANEOUS

Weight distribution base plates

When Modula units are required to be installed in areas where floor point loads may be in excess of the existing slab, or when Seismic applications dictate that additional unit anchoring is required weight distribution plates are used to lessen the floor load on the slab and to provide additional anchoring locations.

In several specific unit configurations, based on taller unit heights and/or very heavy tray loads, or for Seismic installations the anchoring of units may be required. Due to this fact, in some locations such as for the US and Canada all Modula VLM units come equipped standardly with the weight distribution plates.



ESD protection

The ESD (Electro-Static Discharge) protection system has been designed to safeguard the units and items stored to provide a level of protection against electro-statically built up charges. The ESD protection system is equipped with an grounding point which is able to accommodate up to 3 devices which may be connected. Device examples include; operator wrist straps, ankle straps or anti-static mats (optional). The grounding point is connected to the operator's grounding device with a total resistance value of 1MOhm.

In addition, the ESD protection system includes additional tray contact points installed at the picking bay location. As the tray is delivered, it contacts these points prior to reaching the operator as an additional means of protecting items. The tray contact points are also connected to the grounding point and again feature a total resistance value of 1MOhm.

The ESD protection system includes one (1) anti-static operator wrist strap. Additional operator wrist straps and/or anti-static mats are available as optional items if required.



BAY OPTIONS

Automatic door

The automatic door provides a one piece sliding door within the access opening area. The door opens and closes automatically as trays are delivered and returned. The automatic door provides users with the following advantages:

- Increased security for items stored within units, which are not accessible when the unit is off or is unattended.
- Reduced noise levels for operators.
- Reduced external contaminants from the surrounding workspace, providing increased cleanliness for items stored within units.

For certain unit configurations, such as units with an internal-bay and having dual-tray delivery, or for units with elevated access openings, the automatic door is required to ensure operator safety.



Tray removal & transportation cart

The tray removal and transportation cart is available for both Lift and Sintes1 VLM units having an internal-bay picking area. The tray removal and transportation cart allows users to take fully loaded trays from within the VLM unit's picking bay and bring them to another area based on an application's requirements.

The tray removal and transportation cart is available on models having a tray load capacity up to 1,102 lbs. (500 kg.)



Telescopic internal bay

The telescopic internal bay configuration is available on all internal bay Modula Lift VLM units. It allows operators to quickly and easily pull a tray out of the internal bay area, for easy loading or picking of large or heavy items using an overhead lifting device. It is available on Modula Lift models with a tray load capacity up to 1,102 lb. and 1,653 lb (500 kg & 750 kg). It includes additional supports to assist operators in pulling out the tray and feature heavy-duty wheels at the base of each support and therefore the feature is only possible for standard bay height units and for the lower delivery position. When the telescopic internal bay is not needed, it simply is pushed back into place and there is no additional space required in the operator's picking area. It is a perfect solution for users needing to deliver trays out of the internal bay area infrequently or for user's who do not have the available floor space for the fully automatic external bay. It is not available for bays other than at ground level for 1,102 lb and 1,653 lb, due to the supporting legs and the gap between VLM and floor.

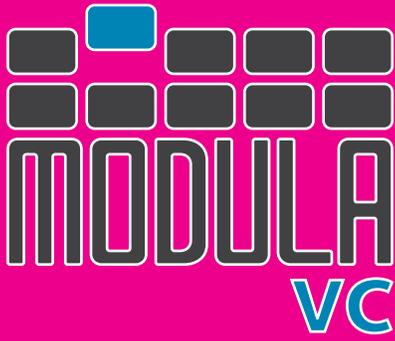


Modula Green

The Modula Green energy recovery system works in conjunction with the VLM unit's electrical system to recover power typically lost as the lifting platform is lowered, which otherwise is dissipated as heat. Energy recovered is available to be sent back into the facility's power grid to reduce overall power consumption costs.

A unique inverter placed between the unit and the facility's electrical panel acts as both a voltage stabilizer and as a generator. The Modula Green system is environmentally friendly as it provides up to a 40% energy savings and a quick return on investment for users.





Modula VC

Vertical Carousel

**Maximized storage density in the
smallest overall footprint.**



Modula VC

Modula vertical carousel technology maximizes storage density with the highest level of volume utilization and is the ideal solution for smaller spaces or for applications with stringent environments.

Modula vertical carousel features:

- Designed for the highest level of reliability and requiring low maintenance for ease of use.
- Carrier load capacities up to 1,102 lbs. (500 kg.) available
- Capable to be used in clean or cold room environments.
- Available dual access configurations for multi-operator use.

Modula vertical carousels feature one of the most durable designs in the marketplace, engineered for long term reliability in demanding applications. Units feature a steel skeletal frame design with exterior panels to protect items within, especially critical for pharmaceutical, hospital and electrical applications.

Modula vertical carousels feature easy to access drives, motor and controls for a quick and easy installation as well as for maintenance needed. Carrier guidance is done using suspension arms designed to optimize load balancing and minimize maintenance costs for users.

The unit's operator focused design and ergonomics makes the Modula vertical carousel extremely easy to use and operate, which results in improved picking accuracy and operator productivity. The color touch screen Copilot operator features graphical screens to enable operators to easily control all picking operations.



Features and Benefits

SPACE UTILIZATION

- The vertical space in your facility is fully utilized, reducing floor space requirements up to 85%.
- Carriers are able to be equipped with additional shelves and/or dividers to ensure maximum usage of the storage space provided.
- Optional Modula WMS software is able to be used to provide further optimization of space and product allocation, further utilizing available storage space.

Safety & Ergonomics

Modula vertical carousels eliminate safety concerns typically found in traditional storage methods such as racks or shelving, due to climbing to reach items or strains from lifting items located in difficult to reach areas. Items and materials are delivered to operators and an ergonomically correct height, while the front work counter provides a temporary resting place for totes or boxes when picking.

Productivity

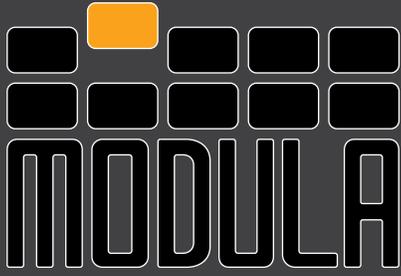
Items and materials are delivered directly to operators, minimizing walking, bending and reaching for heavy items. The vertical carousels point-of-use design keeps items closer to the operator and allows for substantial productivity gains over static storage solutions.

Flexibility

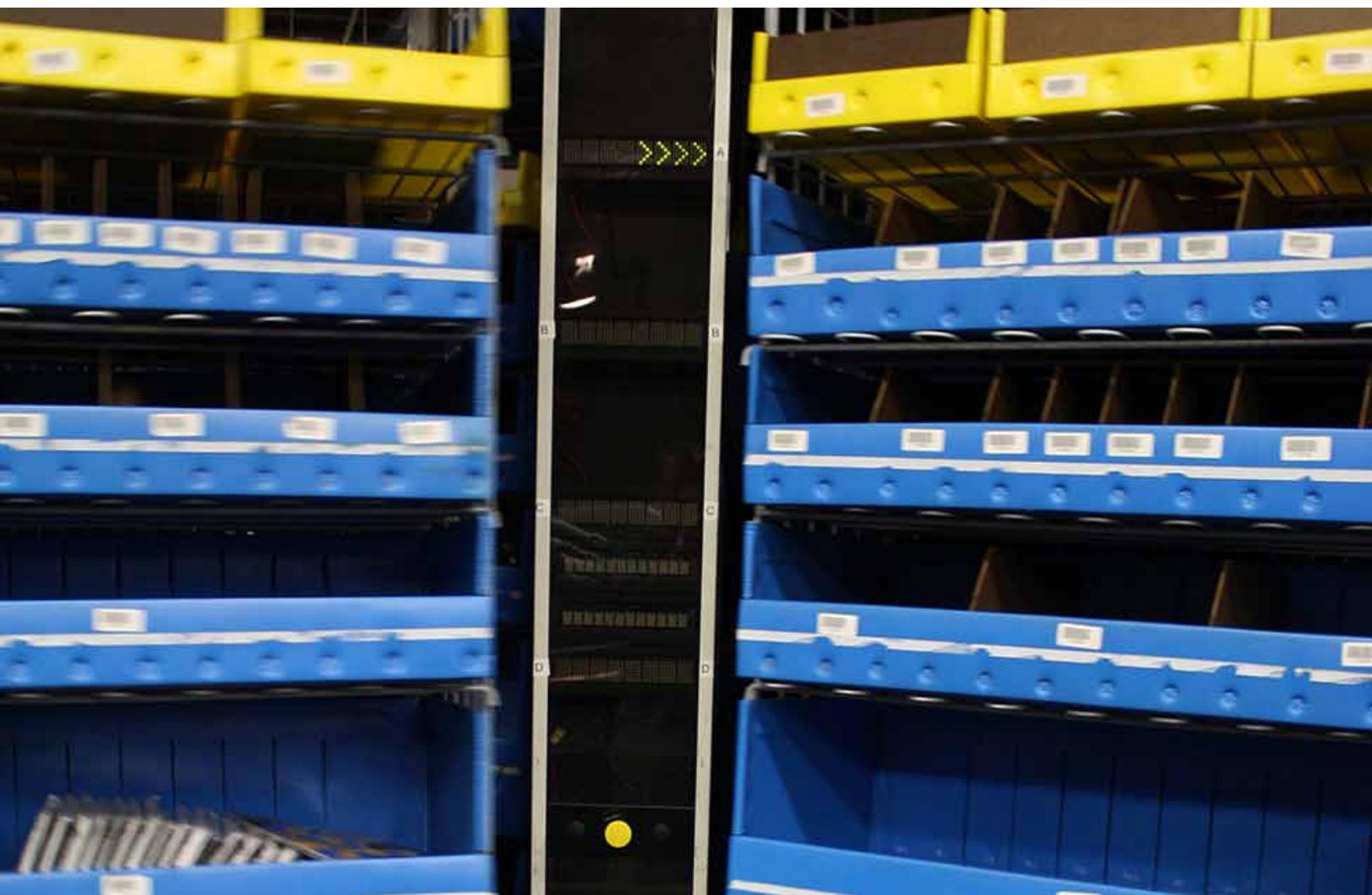
The unit's Copilot controls functions allow for picking by carrier number or picking by item number when used with Modula WMS

software. Items or locations are always accessed via the shortest and quickest path to maximize productivity. It's possible to store both raw materials and finished goods in the same unit and it is also possible to further secure items within units thanks to access opening doors and optional software protection. When used with optional Modula WMS software, units are able to interface with a user's Host system for advance order management and inventory control allowing for real-time visibility of what item inventory levels are.





Horizontal technologies





**Modula Diamond Phoenix - HC
Boost productivity and accuracy in
your order picking operation.**



Modula **Diamond Phoenix - HC**

Modula Diamond Phoenix Horizontal Carousels are the ideal solution for high speed picking operations. Horizontal Carousels consist of carriers that are supported on an oval track that deliver stored goods to the picker. To increase throughput, two or more carousels (known as a pod) are often integrated with a workstation that is configured with batch picking software and pick-to-light. Productivity can be increased by up to 65% with the Modula Diamond Phoenix Horizontal Carousel.

**Boost productivity
and accuracy
in your order
picking operation
by up to:**

65%



Features and Benefits

Light directed picking

The Modula Diamond Phoenix Horizontal Carousel is easily configured with light displays to effectively communicate messages between the software and operator.

Work stations

An integral part of our horizontal carousels system design is the work station. With a broad choice of modular components and options, our cost effective workstation can be configured specifically for your operator's tasks - from high speed picking and putting to scanning, kitting, ticketing, bagging, labeling, weighing, logging, packing, inspecting and more. Easy to adjust or reconfigure as your needs change, it's the industry's most versatile, flexible workstation ever offered.

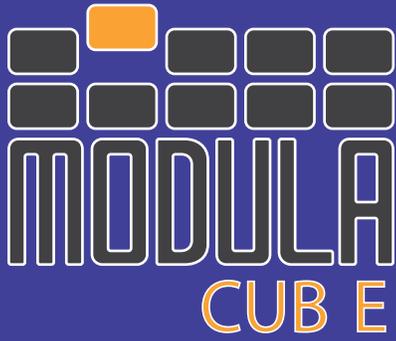
Operator Safety

All Modula units are equipped with physical and optical safety barriers in order to ensure a 100% safe environment to operators.

Infinite configurations

Our Horizontal Carousels are designed to be completely flexible. Carousels can be used as a stand alone unit or arranged in multiple pods and can even be triple or double stacked; all depending on your operations requirements. Bins also have flexible configurability, coming in a wide range of heights, widths, and shelf designs.





Modula **CUBE**
**The Modula automated horizontal
storage system**



MODULA
CUBE

MODULA

Modula **CUBE**

Modula Cube is an automated horizontal lift storage system, that is the ideal solution for high value items in low ceiling applications.

The Cube has an intuitive color touchscreen console and interface similar to other Modula equipment, providing efficient and easy to use picking for users and increased inventory control.

How does it work

Modula Cube is made up of multiple modules to build its overall length, where trays are stored in two columns within each module, one at the front and the other at the rear. Trays are transported between modules to operators at the access opening area via a shuttle that travels both vertically and horizontally within the unit.

Trays move from the rear of the unit to the access opening location at the base of the modules. In essence it acts much like a traditional VLM as far as storage is concerned, but we also have the ability to transfer trays between modules for a longer machine instead of only storing items vertically.

Safety systems

- Product height measurement light curtains for measuring incoming items.
- Personal protection safety light curtains at the access opening area to prevent injury when trays are being delivered or returned.
- Automatic doors at the access opening area.
- The picking bay area features lighting to allow for easy viewing of items.



Technical highlights

Unit widths: 115.4" (Cube) & 140.9" (Cube+); (2,930 mm & 3,580 mm)

Unit height: 107.5" (2,730 mm)

Number of modules possible: from 1 to 6 (Cube) & from 1 to 5 (Cube+)

Unit depth (Cube) (depending on no. modules): from 89.4" to 546.0" (2,270 mm to 13,870 mm)

Unit depth (Cube+) (depending on no. modules): from 101.2" to 515.7" (2,570 mm to 13,100 mm)

Tray storage adjust-ability: 3.94" (100 mm)

Tray widths: 99.6" (Cube) & 125.4" (Cube+); (2,530 mm & 3,185 mm)

Tray depths: 25.6" (Cube) & 29.6" (Cube+); (651 mm & 752 mm)

Maximum product height stored: 10.83" (275 mm)

Net tray load capacities: 276 & 551 lbs. (125 & 250 kg.)

Net unit load capacity: 109,128 lbs. (49,500 kg.)

Gross unit load capacity: 127,868 lbs. (58,000 kg.)

Throughput: up to 60 trays /hr.

Operator interface: color touchscreen console (Dico 605)

Number of access opening possible: up to 2; front or rear

Bay types available: internal bay, with single or dual tray delivery

Number of bays: up to 2 / front or back

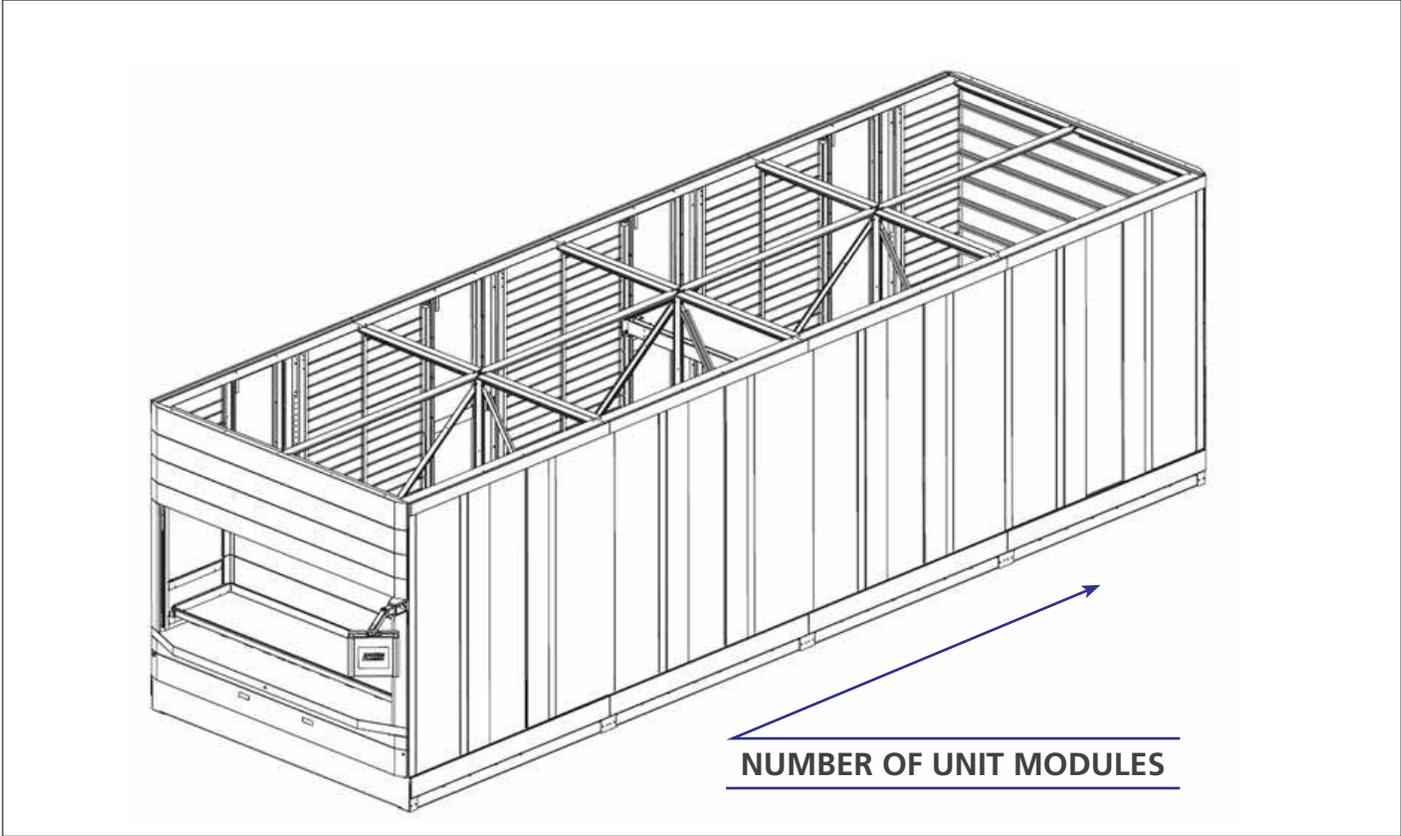
Minimal energy consumption: 2 Hp (1.5 kW) (Cube) & 4.7 Hp (3.5 kW) (Cube+) vertical axis motor

Galvanized steel internal frame structure

Modula CUBE can be integrated with

Modula WMS

WMS software solutions are available for all Modula units, designed to manage and improve every storage solution.



CUBE Models

Cube



Model	CUBE
Unit width (in/mm)	115.35" / 2,930
Unit height (in/mm)	107.5" / 2,730
Number of modules	from 1 to 6
Unit depth (in/mm)	from 89.4" to 546" / from 2,270 - 13,870 mm
Tray width (in/mm)	99.60" / 2,530
Tray depth (in/mm)	25.62" / 651
Net tray load capacity (lbs/kg)	276 & 551 / 125 & 250

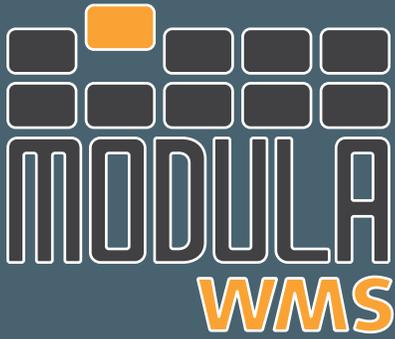
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Cube+



Model	CUBE+
Unit width (in/mm)	140.94" / 3,580
Unit height (in/mm)	107.5" / 2,730
Number of modules	from 1 to 5
Unit depth (in/mm)	from 101.18" to 515.74" / from 2,570 - 13,100 mm
Tray width (in/mm)	125.39" / 3,185
Tray depth (in/mm)	29.52" / 750
Net tray load capacity (lbs/kg)	276 & 551 / 125 & 250

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Modula WMS
Warehouse Management
Software.

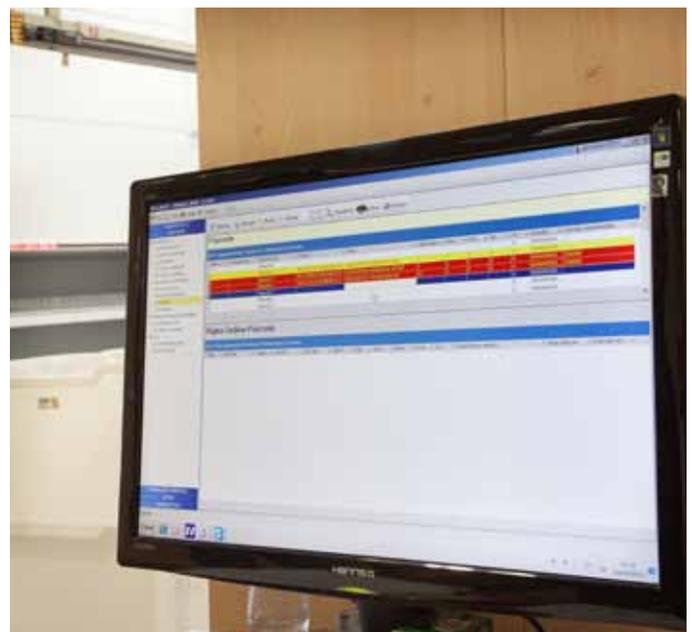
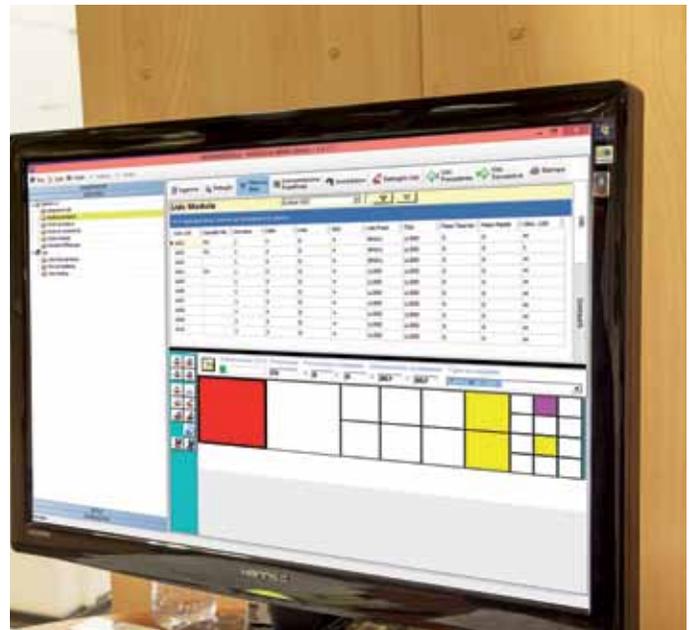
Modula WMS Software

Modula WMS software is a complete inventory management software ideal for all Modula automated storage equipment, such as VLM's, vertical carousels and horizontal carousels as well as with traditional storage methods, such as shelving or racking. Modula WMS software is able to be used as the perfect complement to all Modula units for additional space and utilization management or even as a stand alone software tool for your warehouse.

Modula WMS software has been developed in-house based on Modula's many years of experience in the integrated management of automated storage equipment. It is designed using the most advanced technologies available and makes use of international best practices in software design and storage automation.

Modula WMS is not only software, its a fully integrated solution for the entire operation and is able to improve:

- ORDER MANAGENT
- PRODUCT SECURITY
- SPEED
- EFFICENCY
- ACCURACY



Benefits of Modula WMS



1. INVENTORY OPTIMIZATION

Modula WMS software continuously searches for optimal locations to further maximize space and optimize inventory in the best possible manner.



2. INTEGRATION TO YOUR HOST SYSTEM

Modula WMS provides an easy ability to integrate with your ERP or Host systems (SAP, Oracle, Microsoft, etc.), MRP or other applications, providing an exchange of accurate and continuous information between systems and Modula WMS.



3. PRODUCTIVITY IMPROVEMENTS

By optimizing order management, Modula WMS provides users with the ability to increase speed of order execution for both picking and replenishment operations, all done with complete item traceability.



4. CONFIGURABILITY

Modula WMS is easily adapted to existing corporate software systems and organizational needs. The result is minimal impact to current procedures and preferences.



5. CONTROL AND EFFICIENCY

Using your data to its fullest potential to improve and maximize the overall performance of your operation.

- Repetitive tasks and procedures are automated.
- Material movements are well planned to optimize tasks.
- Processes and paperwork are substantially reduced.



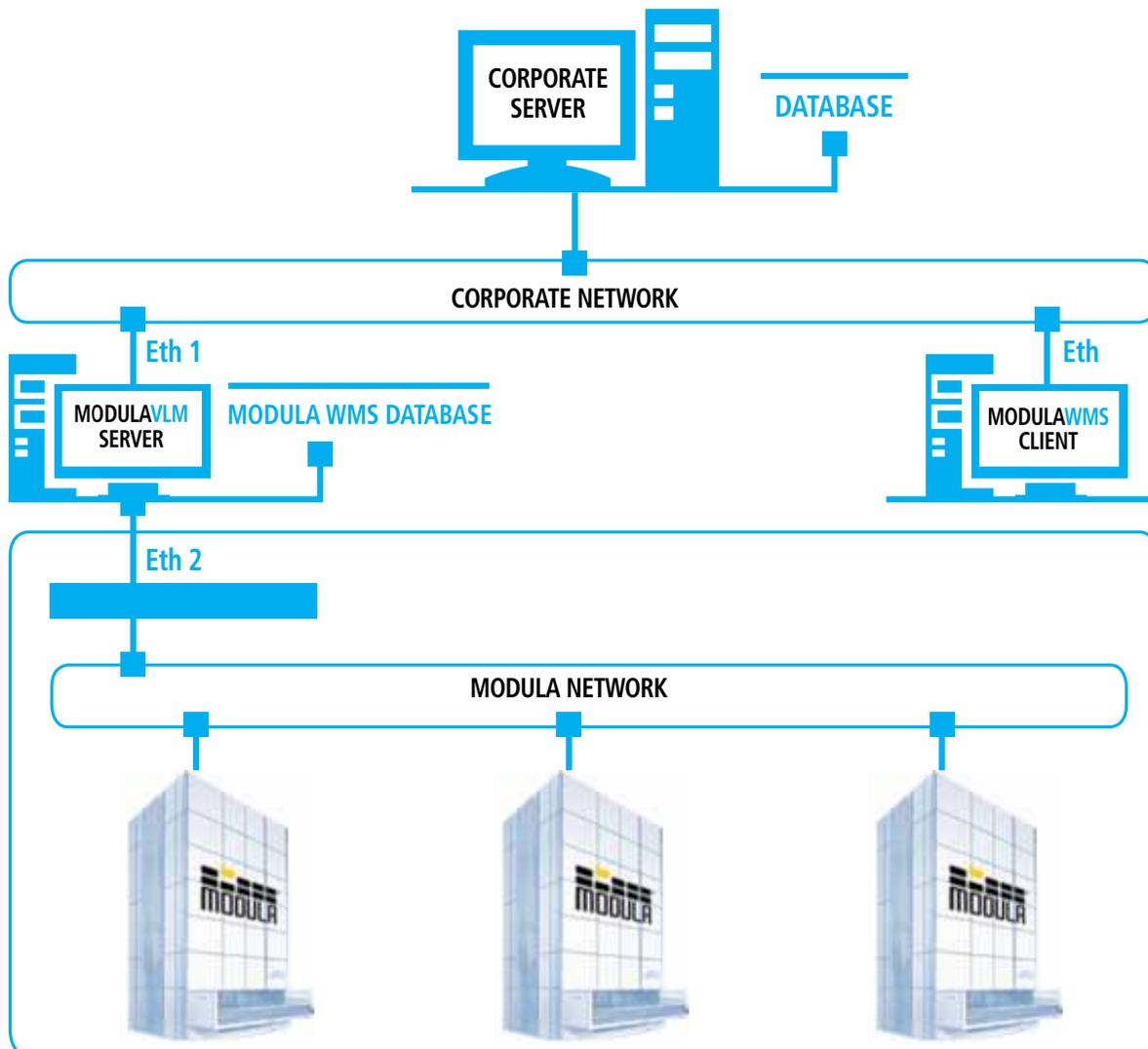
6. EASE OF USE

Operating procedures are efficiently designed for an intuitive and easy to use experience, by even lower skilled users.

System Architecture

Modula WMS software allows for a real-time management of items via a **PC interface**. All that is needed to be supplied is a PC to act as the software's server and customers may choose to add additional "client" PC's for their use, depending on the number of storage area locations or specific needs.

Modula WMS installs the **Express version of Microsoft SQL Server**, which is free and does not require any additional licenses. The SQL Server database used must be exclusively for Modula WMS to use.



Software Packages



MODULA WMS BASE



The BASE software module is the included package provided with all Modula units sold. It provides the basic tools necessary

to manage the space and utilization of units, such as order register management, graphical tray location management, the ability to request individual items by way of orders or individual item requests, execution of physical inventories and the ability for integration with a client's management system by means of a manual text file exchange with a predefined path.



MODULA WMS BASE PLUS



The BASE PLUS software module adds two important functionalities in addition to the BASE software module.

Advanced security management to limit access to specific trays or items, based on the user's login profile. And an automatic and configurable import/export data exchange with a client's management system, using text files or shared tables accessible via ODBC, .XML, ASCII or Excel files.



MODULA WMS STANDARD



The STANDARD software module includes functionality designed to make Modula units as efficient as possible, added functionalities

include: Dynamic item to compartment allocation management. Dynamic batching and item serial & lot number management. FIFO and expiration date management. It also provides warehouse statistical analysis tools as well as print report customization.



MODULA WMS DRIVER



The DRIVER software module allows clients who already have a "Host Management"

type of software in place to have the ability to manage several Modula units for their picking, replenishment and cycle-counting needs using the in place Host system. Communication is made possible using text files or shared tables. It is possible to use visual picking aid accessories such as the X-Axis LED Bar, Alphanumeric LED Bar and Laser Pointers. The Copilot console is used to allow operators to interact with units, although all item and order requests are done using the existing WMS.



MODULA LINK



Modula LINK allows clients who already have a "Host Management" type of software in place to have the ability to control the automation commands of several Modula units. Communications with the supervisory Host PC is accomplished via sockets. In this case there is no order information exchanged, rather specific machine movement commands to move storage locations are sent based on the items needed. It is possible to use visual picking aid accessories such as the Alphanumeric LED Bar and Laser Pointers. The Copilot console in this case is NOT

used by operators to interact with the unit. In this case it is necessary to use RF terminals or another PC to execute orders and interact with the external Host system.

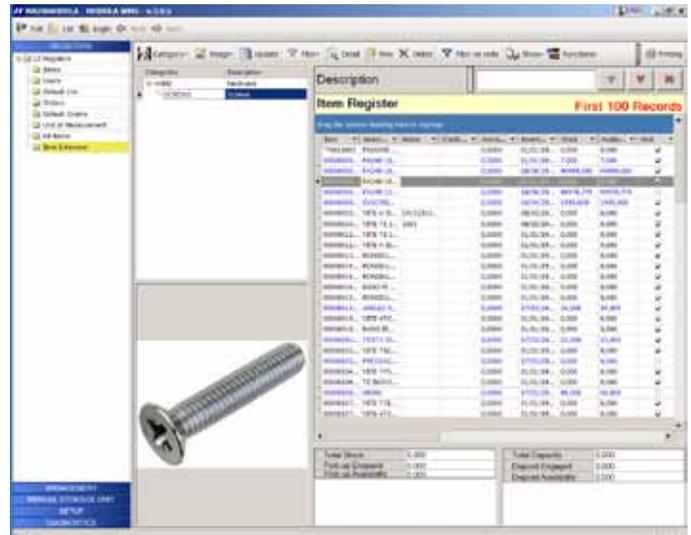
Supplementary software modules

Available to be added to Modula WMS Standard

ADVANCED ITEM MANAGEMENT

The advanced item management module provides additional functionality to the Standard software:

- Extended fields for advanced item management.
- Ability to associate images to items for picking operations.
- Ability to group items into families for improved search and filtering capabilities.
- Advanced security management options able to limit access to specific trays for users.
- Multiple, pre-defined types of order management possible.



MANUAL WAREHOUSE MANAGEMENT

The manual warehouse management module allows for the creation and management of manual storage areas. Users can also manage material transfers between areas as well as incoming materials received.



RADIO FREQUENCY

The RF software module is only available in addition to the manual warehouse module and it further extends its functionalities. The RF module allows the use of Windows CE or Mobile based RF terminals to manage manual storage areas.



ADVANCED ITEM PICKING

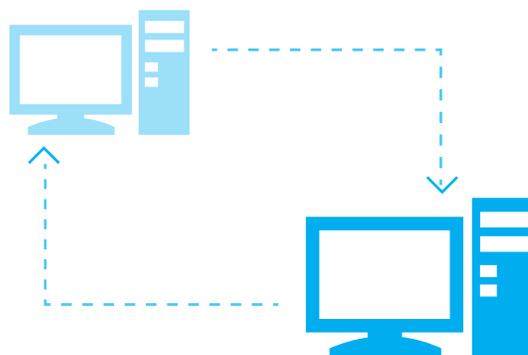
The advanced item picking module provides additional functionalities to improve picking activities such as batch picking “put-to-light” system management, packing list management, and assembly kitting management.

discover more on page **63**



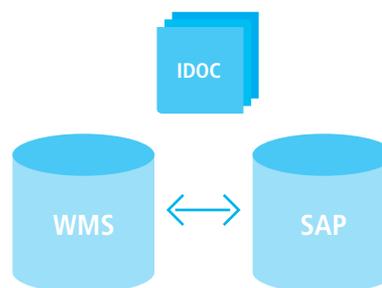
REMOTE ASSISTANCE

The remote assistance module provides the ability to connect remotely to Modula SMS through a web browser. It allows for easy error diagnostics and assistance in troubleshooting issues quickly and easily without having to wait for a software technician to arrive.



SAP® IDOC

The SAP® IDOC module allows for interfacing with SAP® WM module by means of standard SAP IDOC's.

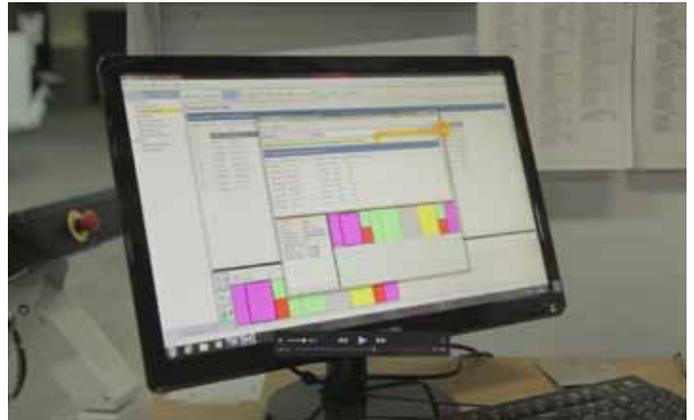


Services provided

In addition to Modula WMS software, the following services are available to users.

SOFTWARE INSTALLATION

Modula WMS software is installed by computer specialists using a fast guided procedure. Once the program has been installed on the server and on any clients and the Modula VLM units have been configured in Modula WMS, the system is immediately ready for use.



STAFF TRAINING

After installation and the initial configuration of the Modula VLM units, the staff that will be using the software will receive basic training in the use and operation of the software and its functionalities. On request, additional in-depth training sessions are available to be organized if needed.



INTEGRATION WITH A HOST MANAGEMENT

Software integration consultation and support is available when required and its goal is to provide the support required for a fast and effective integration to the host or ERP system.



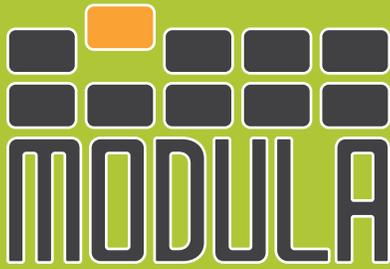
WARRANTY AND SUPPORT

Modula WMS is covered by a limited warranty and support until the end of the software's life cycle. The licensor reserves all rights not expressly stated herein.

TECHNICAL SERVICE

Telephone support and/or remote service support is provided using the Remote Assistance module.





Customer **CARE**

**Our team is always here to take care
of your needs**





UNIT & SOFTWARE TELEPHONE SUPPORT

Modula unit and software telephone support is always available for all clients. The majority of issues or faults are able to be corrected quickly and easily by phone with a Modula technician assisting in correcting the issue or answering the client's questions on use. For Modula WMS software users we also offer a web based service to allow technicians to connect to the WMS software remotely to assist in issues. Specific coverages and packages are available based on a client's needs.



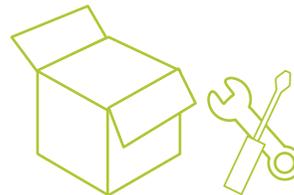
PREVENTATIVE MAINTENANCE

To ensure Modula units are always functioning correctly and efficiently, preventative maintenance service contacts are available to users at any time. Contracts are based on the operational run-time of units and their usage levels. Modula units automatically inform users when preventative maintenance is due to take place so there is no need to worry about timing. Preventative maintenance service includes a verification of all functionalities (hardware and software) as well as a thorough unit check to prevent wear and ensure units operate in the best possible manner.



ON SITE SERVICE

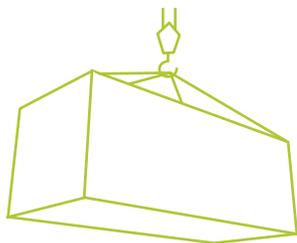
Our expert, factory trained technicians are able to travel to a client's site to solve any technical issue. Modula technicians are always equipped with the parts and tools to allow repairs to be made quickly and get the client back in operation as soon as possible. Preventative maintenance service agreements are also available.



OEM SPARE PARTS & ACCESSORIES SALES

Modula also offers unit accessories and spare parts items after the original sale is made. To further optimize units, client are able to purchase additional accessories such as partitions, dividers, etc. In addition several spare parts packages are available to select based on the level of items needed so clients are able to have these items on hand for easy access if needed.

discover more on page **56**



UNIT MOVES AND MODIFICATIONS

Modula offers specific services when structural modifications are required (modifying unit heights, installing unit accessories, or adding WMS software) as well as unit moves within your facility or to a new facility.



AFTER SALES SUPPORT

Modula also offers additional consulting services to update and maintain WMS software databases, install additional WMS software modules if required and to further personalize units with options and accessories available.



AFTER SALES TRAINING

Following the sales process and unit installation, Modula also offers additional training courses dedicated to operators and maintenance technicians, so clients are able to more autonomously operate and maintain Modula technologies.

Partial Modula references

Consumer Goods

Black&Decker	USA
Citizen Watches	Mexico
Colgate Palmolive Company	USA
Costan	Italy
Cristian Lay	Spain
Deny Fontaine	France
Dewalt	USA
GGB	USA
Incold	Italy
Luxtotta	Italy
Maria Galland	Germany
MG Gold	Brasil
Osram	Mexico/Italy

Aeronautical Industry

Airbus	USA
Barry Controls Aerospace	USA
Boeing	USA
Bombardier	Germany
Dassault Aviation	France
Embraer	Brasil
Eurocopter	France
Israel Aerospace Industries	Israel
JPR	France
Krasny Oktyabr	Russia
Lufthansa	China
Tata Advanced Systems	India

Food Industry

Acetaia di Modena	Italy
Beam Global	Spain
Cantina Colli del Soligo	Italy
Contri Spumanti	Italy
Damm	Spain
Hilton Meats	UK
Mahou San Miguel	Spain
Marchesi Antinori	Italy
Mars	USA
Nestle	UK
Pepsi Corporation	USA
Spendrups	Sweden
Vonpar Refrescos	Brasil

Public Administration/Army

A.O.U. Ospedali Riuniti di Trieste	Italy
Cina Academy of Space Technology	China
Fort Campbell	USA
General Dynamics	USA
GOZ Obukhov State Plant	Russia
Guardia di Finanza	Italy
Huntington Ingalls Industries	USA
National Institutes of STDS	USA
NHS National Services Scotland	UK
US Army Aviation	USA

Home Furnishings

Alexandria Mouldings	USA
Edilkamin	Hungary
Franke	Italy
Immergas	Italy

Automotive

Automobili Lamborghini	Italy
Axletech	France
Betamotor	Italia
BMW	China
Brembo	Italy/PolandChina
Caterpillar	USA
Chrysler	Mexico
CNH Industrial (FIAT)	Spain/Belgium
Continental	DE/Romania/Serbia
Daimler	Germany
Ferrari	Italy
FIAT	Italy/Serbia
Ford	Spain
Goodyear	Germany
Iveco (FIAT)	Spain
John Deere	USA
Maschio Gaspardo	Italy/Romania
Muhr und Bender	DE/USA/China/MX
New Holland Tractor (FIAT)	Holland
Nitol Motors	Bangladesh
Pagani Automobili	Italy
Porsche	Germany
Renault	France
Subaru	USA

Biomechanics/Biomedical Industry

Alcon Research	USA
Biotec	Italy
Fatro SPA	Italy
Medison co.	Corea
Merit Medical Systems	USA
Neodent	Brasil
Steris Corporation	USA
Symrise	USA

Paper Industry/Publishing

Crane&Co	USA
Irving Tissue	USA
MPO	France
Rocktenn Preprint	Canada
SICPA	Brasil
Sofidel	Italy/France

Ceramic Industry

Cooperativa Ceramica di Imola	Italy
Euroceramique	Spain
Florim	Italy/USA
Kajaria Ceramics	India

Pamesa Ceramica	Spain
Porcelanosa Group	USA
Sacmi	Italy/Mexico
Serenissima Ceramiche	Italy

Chemical

AC Marca	Spain
Akzo Nobel	Italy
BASF	Spain
Dupont	USA
Firmenich	Switzerland
Grupo AC Marca	Spain
Infracor GmbH	Germany
Symrise	USA

Construction Industry

Alu Badre	France
Aluplast	Italy
I.K.O.	Canada
Saint Gobain	USA
Sapa Building	GB/France/Belgium
Wilo SE	Germany

Electrical/Electronic Industry

ABB	Estonia
Clay Paky	Italy
Disano Illuminazione	Italy
Emerson Industrial Automation	Brasil
ETI	Slovenia
Johnson Controls	Germany
Kemet	Mexico
Kyocera	Italy
Moog	Italy
Qualcomm	USA
Rexroth Bosch Group	Germany/Russia
Savoye	France
Siemens	USA/DE/MX/IND

Energy Industry

Babcock & Wilcox	USA
Baker Hughes	UAE
BP British Petroleum	UK
Conoco Philips	USA
Dow-Kokam	USA
Duke Energy	USA
Joy Global	USA/China
Nordex Energy GmbH	Germany
Petrobras	Brasil

Pharmaceutical Industry

Abbott	France
Amgen	USA
Bayer	Mexico
Cooper Vision	USA
Fresenius Kabi	Italy

GlaxoSmithKline	USA
Janssen Pharmaceutical	Belgium
Johnson & Johnson	USA/Brasil
Kaiser Permanente	USA

Oleodynamic/Pneumatic Industry

Dicsa	Spain
Festo Pneumatics	Mexico
Hawe Hydraulics	USA/China
HP Hydraulics	Italy
IMM Hydraulics	Italy/UK
Mono Pumps	UK
Sag/Sagom Tubi	Italy

Logistic / transport Industry

Avto Logistika	Russia
CSX Transportation	USA
DB Service GmbH	Germany
DHL	Spain
FedEx	USA
Infrabel Railway	Belgium
Kuhne + Nagel	Spain/France
MTA Metro North Railroad	USA
Toronto Transit Commission	Canada

Mechanical/Metallurgy

Bonfiglioli Riduttori	Italy
Comau	Italy/Romania
Danieli	Italy/China/Thailand
Fanuc Robotics	Italy
Fliegl	Germany
Honeywell Garrett	Italy/Romania
IMA Industries	Italy
KBA Konig&Bauer	Germany
Krones	Germany
Marchesini Group	Italy
M.T. Marchetti	Italy
Otis	Italy
Rodo-ketten	Germany
Special Springs	Italy
Su-matic	Italy
Thyssenkrupp	Brasil/China

Plastic Industry

Klintpack	Thailandia
Lavel Gomma	Italy
Schwartz GmbH	Germany
Trelleborg	UK/China

Textile Industry/Clothing Industry

Cotton Republic	Mexico
Giorgio Armani Operations	Italy
Jeans Knit PVT Ltd	India
Max Mara Group	Italy
Valentino	Italy



Think Vertical, Think Modula





Modula World

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