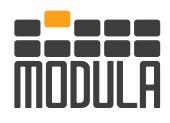


Modula LIFT

Think Vertical, Think Modula







Available in a range of sizes and capacities, the Modula Lift has become the go-to solution for businesses around the world as they seek to modernize their processes, reposition their spaces and drive efficiency.

How does a Modula Lift work?

Modula's vertical lift modules (VLMs) are fully automated vertical storage systems that take up a minimum footprint by taking advantage of high ceilings, thus maximizing storage potential. Items can be stored up to 53 feet high in a safe and secure unit that automatically delivers them to an operator with a touch on the user-friendly Copilot controller or scan of a barcode.

No more time wasted searching for items. The right part is delivered to the right person at the optimum ergonomic retrieval height.



Think it's a big investment?

100% ROI 12-18 months on average

Benefits at a Glance



IMPROVES EFFICIENCY Fulfill orders efficiently without picking errors



MANAGES YOUR INVENTORY

Control stock levels and inventory movements with just one click



RECOVERS SPACE Saves up to 90% of valuable floor space compared to traditional storage methods



SAVES TIME Locate the parts and products you need instantly

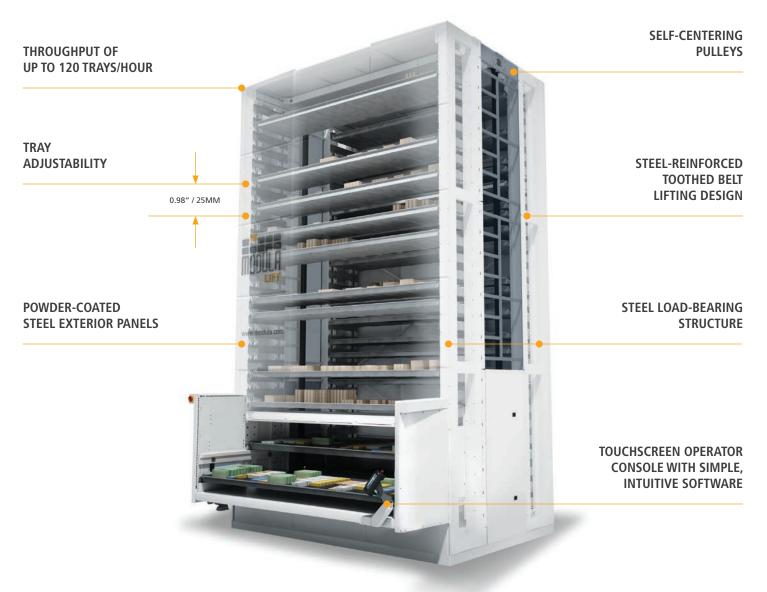


INCREASES SECURITY Choose storage that keeps your spare parts secure



REDUCES RISKS No more climbing stairs or mezzanines to retrieve your goods





Technical Features				
UNIT HEIGHTS	THROUGHPUT			
from 10'10" (3,300 mm) to 52'10" (16,100 mm)	up to 120 trays/hr (depending on configuration)			
UNIT HEIGHT INCREMENT	OPERATOR INTERFACE			
7.87" (200 mm)	industrial console with 10.4" touch screen (Copilot)			
TRAY WIDTHS	NUMBER OF BAYS			
from 59.05" (1,500 mm) to 161.41" (4,100 mm)	up to 3, front and rear of the units or on multiple floors			
TRAY DEPTHS	TYPES OF BAYS			
25.75" (654 mm) & 33.74" (857 mm)	internal or external, single or dual tray delivery			
NET TRAY PAYLOAD CAPACITIES	GROSS TOTAL PAYLOAD			
551 lbs (250 kg), 1,102 lbs (500 kg), 1,653 lbs (750 kg) & 2,182 lbs (990 kg)	up to 200,000 lbs (90,000 kg) depending on the configuratior			

Saves Space & Reduces Operations Cost

Saves up to 90% of valuable floor space compared to traditional storage methods and makes space available for future growth needs.



Increases Productivity and Accuracy

Vertical lift modules automatically deliver items to the operator with a simple touch on the Copilot console or a scan of a barcode.

This feature drastically reduces handling times, both in picking and replenishing, as there is no walking back and forth to find and retrieve goods.





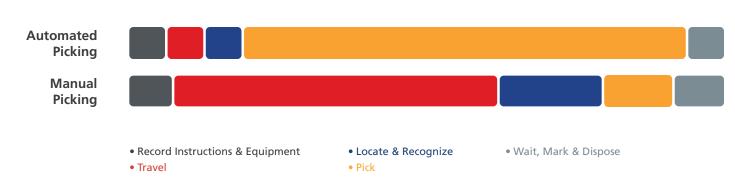
Thanks to the simple inventory management software and the visual picking aids, operators can quickly and easily identify the items needed, dramatically reducing picking errors.



More Orders in Less Time

Operators can process even complex orders in the shortest possible time and with the highest quality level, even during peak workload times, as they don't have to wait between jobs when retrieving parts.

Industry studies have shown that vertical storage solutions can increase workforce productivity by up to 85% because one worker is able to handle the same volume of work previously performed by multiple operators.



Automated vs Manual Picking: Percentage of Time Spent Picking

Stock Density Optimization

A height-detection system determines vertical dimensions of items as the tray is put away, calculating adjustments in real time to maximize storage density within the unit.



Modula Lift ADVANTAGES

Designed with Worker Ergonomics and Safety in Mind

Following the parts to picker's principle, these automated storage systems deliver the items to the fixed operator's location where the picking operations take place. Walking time for parts retrieval is reduced up to 90% when compared to static shelving.

This feature significantly minimizes the risk of injury from motion and provides maximum safety for personnel in even the most demanding working conditions.





100% ergonomical

Security & Inventory Control

A reliable locking and validation feature plays a key role in many industries. Every unit is password protected, allowing only authorized operators with a personal badge and/or access code entry to operate the machine. All picking operations are monitored and log-ins are tracked even down to specific trays, depending on the chosen level of security.

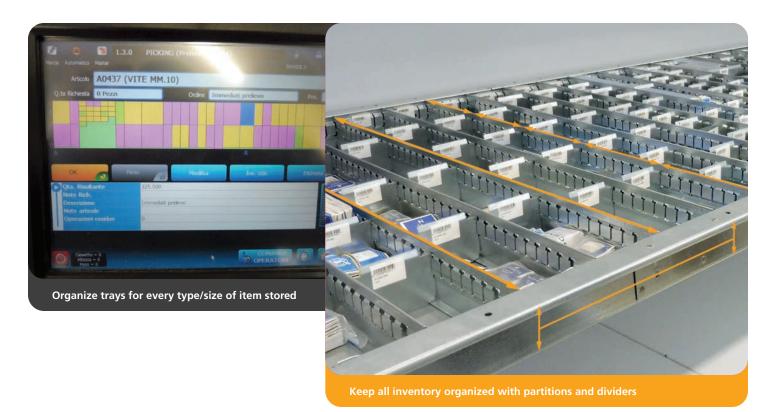
Tracking access to specific trays is also beneficial for inventory control, preventing operators from picking the same items or for highly valuable products to be stolen.



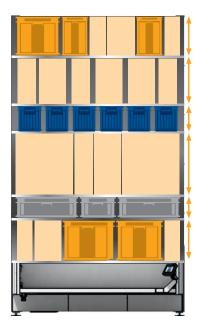


Flexible Integration & Scalable Design

Trays can be organized for every type/size of stored item. Thanks to our partitions and dividers, you can create the exact number of storage locations required, and their configurations can be adjusted at any time to accommodate changes in the size or quantity of your stored items or seasonal demands.



The modular design of the VLM ensures almost unlimited flexibility. The height can be modified and adjusted to optimize the unit for the ceiling height by adding or removing modules. If you change locations or move to a different site, your Modula VLM can be quickly adapted to the new height requirements.





Modula Lift APPLICATIONS

What Can You Store in a Modula Lift?

The Modula Lift can store virtually any type of products or parts in different sizes, weights, heights and volumes Typically, companies stock:





Reels and electronic components



Pharmaceuticals, boxes and cosmetics



Mechanical instruments





Small parts and hardware





Spools, rope, chains



Bay Configurations for Every Operational Need

Operators can process even complex orders in the shortest possible time. Modula Lifts can be ordered in a variety of bay delivery methods, including:

- Internal bayExternal bay
- Dual-delivery bay
- Single-delivery bay
- Opposite bays on the front and rear of the units
- Bays on multiple floors

The dual-delivery option allows one tray to present the parts to an operator while the other is retrieving additional parts. Trays can deliver on two sides of the machine or on different levels of your facility. External bays can be useful when employing mechanical aid such as forklifts, cranes or hoists.



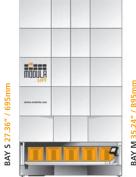
Single internal delivery







Different Bay Models for Every Product Height





BAY XL 50.38" / 1,295mm

Modula Lift is offered in 3 sizes of bays (S/M/XL) to accommodate different products heights:

- Maximum product height for single delivery level 27.36" / 35.24" / 50.98" (695 / 895 / 1,295 mm)
- Maximum product height for dual delivery level 12.6"-12.6" / 12.6" - 20.47" / 20.47"-36.22" (320-320 / 320-520 / 320-920 mm)

Modula Lift APPLICATIONS

Unlimited Integrations

The Modula Lift can integrate with other automated technologies to further enhance productivity and speed, including:

Robots

Roller conveyors

- Put-to-light systems
- Zero-weight cranes
- Manipulators

Zero-weight traffes

By connecting the WMS solution with existing ERP systems, the Lift can seamlessly blend into a company workflow.



Integration with anthropomorphic robots



Put-to-light systems connected to WMS



Integration with manipulators and cranes



Integration with conveyors

Flexible Installations

The Modula Lift can extend over different floors with access openings on the front and rear, allowing operations on multiple levels simultaneously. The units can also be installed outside of building to further expand storage space.



Insulated machines for outdoor installation



Modula Warehouse Management System WMS





The Modula warehouse management system (WMS) is designed to operate automated storage equipment such as the Modula VLM, as well as conventional storage methods such as shelving and manual picking.

As one of the most intuitive and advanced software solutions on the market, Modula WMS seamlessly interfaces with almost all DMS and ERP systems, making processes such as receiving, picking, and putting away products faster and more accurate:

Modula WMS Benefits

- Increased picking and replenishment accuracy and efficiency
- Complete inventory visibility and control to drive performance and reduce costs
- Reduced paperwork and the tedium and mistakes of manual processing
- Easy integration with existing ERP or DMS systems



Copilot Operator Console

An easy-to-use 10.4" touchscreen color display makes it intuititive for operators to retrieve what they need. The graphic visualization of the tray layout shows the user clearly where and what to select, and displays all requested information relating to picking or refilling operations, such as item code and quantity.



Modula Lift OPTIONS

Visual Aids for Picking



Alphanumeric LED Bar







Options to Improve Productivity



2D/3D Barcode Reader



EKS Reader

Label Printer



Counting Scale



Sliding Console

User Authentication



Magnetic Badge Reader

Picking Solutions







Picking Station

RFID Reader

Modula Lift **OPTIONS**



Bay Options



Telescopic Bay



Tray Removal & Transportation Cart





Tray Accessories



Slot Tray Walls | Partitions | Dividers



Miscellaneous



End Picking Button



ESD Protection System



Foot Bar Task Complete



Modul Green





Sprinkler Configuration Available





├── 75.47" / 1,917 mm ──

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)
ME25	59.05 / 1,500	25.75 / 654	1.77-2.75-4.72 / 45-70-120	551 / 250	75.47 x 100.63 / 1,917 x 2,556	75.47 x 127.8 / 1,917 x 3,246
ME25D	59.05 / 1,500	33.74 / 857	1.77-2.75-4.72 / 45-70-120	551 / 250	75.47 x 124.61 / 1,917 x 3,165	75.47 x 159.76 / 1,917 x 4,058
ME50	59.05 / 1,500	25.75 / 654	2.75-4.72 / 70-120	1,102 / 500	75.47 x 100.63 / 1,917 x 2,556	75.47 x 127.8 / 1,917 x 3,246
ME50D	59.05 / 1,500	33.74 / 857	2.75-4.72 / 70-120	1,102 / 500	75.47 x 124.61 / 1,917 x 3,165	75.47 x 159.76 / 1,917 x 4,058
ME75	59.05 / 1,500	25.75 / 654	2.75-4.72 / 70-120	1,653 / 750	75.47 x 100.63 / 1,917 x 2,556	75.47 x 127.8 / 1,917 x 3,246
ME75D	59.05 / 1,500	33.74 / 857	2.75-4.72 / 70-120	1,653 / 750	75.47 x 124.61 / 1,917 x 3,165	75.47 x 159.76 / 1,917 x 4,058
ME1000	57.48 / 1,460	25.75 / 654	2.75-4.72 / 70-120	2,200 / 990	75.47 x 100.63 / 1,917 x 2,556	75.47 x 127.8 / 1,917 x 3,246
ME1000D	57.48 / 1,460	33.74 / 857	2.75-4.72 / 70-120	2,200 / 990	75.47 x 124.61 / 1,917 x 3,165	75.47 x 159.76 / 1,917 x 4,058

MA & MA-D

ME & ME-D

Notice 1	
	9

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	91.22 x 100.63 / 2,317 x 2,556	91.22 x 127.8 / 2,317 x 3,246
MA25D	74.80 / 1,900	33.74 / 857	1.77-2.75-4.72 / 45-70-120	551 / 250	91.22 x 124.61 / 2,317 x 3,165	91.22 x 159.76 / 2,317 x 4,058
MA50	74.80 / 1,900	25.75 / 654	2.75-4.72 / 70-120	1,102 / 500	91.22 x 100.63 / 2,317 x 2,556	91.22 x 127.8 / 2,317 x 3,246
MA50D	74.80 / 1,900	33.74 / 857	2.75-4.72 / 70-120	1,102 / 500	91.22 x 124.61 / 2,317 x 3,165	91.22 x 159.76 / 2,317 x 4,058
MA75	74.80 / 1,900	25.75 / 654	2.75-4.72 / 70-120	1,653 / 750	91.22 x 100.63 / 2,317 x 2,556	91.22 x 127.8 / 2,317 x 3,246
MA75D	74.80 / 1,900	33.74 / 857	2.75-4.72 / 70-120	1,653 / 750	91.22 x 124.61 / 2,317 x 3,165	91.22 x 159.76 / 2,317 x 4,058
MA1000	73.23 / 1,860	25.75 / 654	4.72 / 120	2,200 / 990	91.22 x 100.63 / 2,317 x 2,556	91.22 x 127.8 / 2,317 x 3,246
MA1000D	73.23 / 1,860	33.74 / 857	4.72 / 120	2,200 / 990	91.22 x 124.61 / 2,317 x 3,165	91.22 x 159.76 / 2,317 x 4,058

MC & MC-D

NOT A	

-114.84" / 2,917 mm-

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	114.84 x 100.63 / 2,917 x 2,556	114.84 x 127.8 / 2,917 x 3,246
MC25D	98.42 / 2,500	33.74 / 857	1.77-2.75-4.72 / 45-70-120	551 / 250	114.84 x 124.61 / 2,917 x 3,165	114.84 x 159.76 / 2,917 x 4,058
MC50	98.42 / 2,500	25.75 / 654	2.75-4.72 / 70-120	1,102 / 500	114.84 x 100.63 / 2,917 x 2,556	114.84 x 127.8 / 2,917 x 3,246
MC50D	98.42 / 2,500	33.74 / 857	2.75-4.72 / 70-120	1,102 / 500	114.84 x 124.61 / 2,917 x 3,165	114.84 x 159.76/ 2,917 x 4,058
MC75	98.42 / 2,500	25.75 / 654	2.75-4.72 / 70-120	1,653 / 750	114.84 x 100.63 / 2,917 x 2,556	114.84 x 127.8 / 2,917 x 3,246
MC75D	98.42 / 2,500	33.74 / 857	2.75-4.72 / 70-120	1,653 / 750	114.84 x 124.61 / 2,917 x 3,165	114.84 x 159.76 / 2,917 x 4,058
MC1000	96.85 / 2,460	25.75 / 654	4.72 / 120	2,200 / 990	114.84 x 100.63 / 2,917 x 2,556	114.84 x 127.8 / 2,917 x 3,246
MC1000D	96.85 / 2,460	33.74 / 857	4.72 / 120	2,200 / 990	114.84 x 124.61 / 2,917 x 3,165	114.84 x 159.76 / 2,917 x 4,058





-138.46" / 3,517 mm-

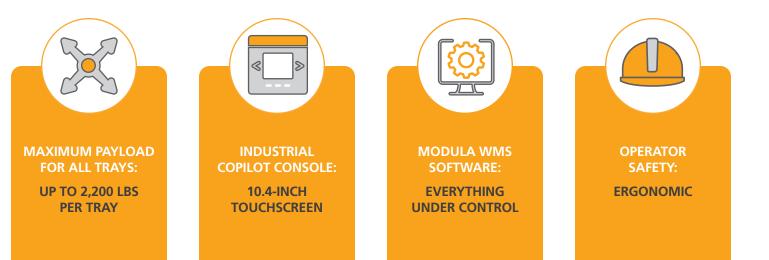
Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray Wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY Width x Depth (in/mm)	Unit Footprint EXTERNAL BAY Width x Depth (in/mm)
MX25	122.05 / 3,100	25.75 / 654	1.77-2.75-4.72 / 45-70-120	551 / 250	138.46 x 100.63 / 3,517 x 2,556	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	138.46 x 124.61 / 3,517 x 3,165	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	138.46 x 100.63 / 3,517 x 2,556	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	138.46 x 124.61 / 3,517 x 3,165	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	138.46 x 100.63 / 3,517 x 2,556	138.46 x 127.8 / 3,517 x 3,246
MX75D	122.05 / 3,100	33.74 / 857	4.72 / 120	1,653 / 750	138.46 x 124.61 / 3,517 x 3,165	138.46 x 159.76 / 3,517 x 4,058
MX1000	120.47 / 3,060	25.75 / 654	4.72 / 120	2,200 / 990	138.46 x 100.63 / 3,517 x 2,556	138.46 x 127.8 / 3,517 x 3,246
MX1000D	120.47 / 3,060	33.74 / 857	4.72 / 120	2,200 / 990	138.46 x 124.61 / 3,517 x 3,165	138.46 x 159.76 / 3,517 x 4,058

177.83" / 4,517 mm

ML & ML-D

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)
ML25	161.41 / 4,100	25.75 / 654	2.75 / 4.72 - 70 / 120	551 / 250	177.83 x 100.63 / 4,517 x 2,556	177.83 x 127.8 / 4,517 x 3,246
ML25D	161.41 / 4,100	33.74 / 857	2.75 / 4.72 - 70 / 120	551 / 250	177.83 x 124.61 / 4,517 x 3,165	177.83 x 159.76 / 4,517 x 4,058
ML50	161.41 / 4,100	25.75 / 654	4.72 /120	1,102 / 500	177.83 x 100.63 / 4,517 x 2,556	177.83 x 127.8 / 4,517 x 3,246
ML50D	161.41 / 4,100	33.74 / 857	4.72 / 120	1,102 / 500	177.83 x 124.61 / 4,517 x 3,165	177.83 x 159.76 / 4,517 x 4,058
ML75	161.41 / 4,100	25.75 / 654	4.72 / 120	1,653 / 750	177.83 x 100.63 / 4,517 x 2,556	177.83 x 127.8 / 4,517 x 3,246
ML75D	161.41 / 4,100	33.74 / 857	4.72 /120	1,653 / 750	177.83 x 124.61 / 4,517 x 3,165	177.83 x 159.76 / 4,517 x 4,058
ML1000	159.84 / 4,060	25.75 / 654	5.71 / 145	2,200 / 990	177.83 x 100.63 / 4,517 x 2,556	177.83 x 127.8 / 4,517 x 3,246
ML1000D	159.84 / 4,060	33.74 / 857	5.71 / 145	2,200 / 990	177.83 x 124.61 / 4,517 x 3,165	177.83 x 159.76 / 4,517 x 4,058



Modula Lift ABOUT US

Modula Services

Whether you are planning to purchase or currently own a Modula product, our customer service team is here for you every step of the way. With support from both our in-house experts and our 70-plus dealers across North America, we're ready to assist throughout the lifecycle of your automated storage systems. Our services include installation, training, maintenance, emergencies, moves to new locations, and more.



Made in the USA

Modula products are made in the United States of America, which allows for speedier shipping times and quicker installation times for our North American customers.





Modula Headquarters and Plant – Lewiston, Maine



Modula Plant – Franklin, Ohio

About Modula

Modula designs and produces automated storage and retrieval systems that dramatically boost productivity and accuracy, reduce storage space requirements, and enhance worker safety and job satisfaction. The only U.S. manufacturer of vertical lift modules, Modula also offers horizontal carousels, warehouse management systems, and a host of accessories that make order picking quick and easy. Established in 1987, Modula has nine branches worldwide, a network of 100 distributors, and factories in the United States, Italy, and China.

Modula Lift OUR CUSTOMERS

USA Spain Germany Mexico/Italy
Italy France USA USA Italy
Italy USA Russia Italy USA Great Britain
USA Germany France Brazil France Israel France Russia China France
Italy France Italy Italy/Poland/China USA Mexico Spain/Belgium many/Romania/Serbia Germany Italy Italy/Serbia Spain Germany Spain USA France Holland Italy Germany/China

Riomec	hanical	/ Biomedical
Diomee		

Biotec	Italy
Fatro SPA	Italy
Medison co.	Korea
Merit Medical Systems	USA
Neodent	Brazil
Steris Corporation	USA
Symrise	USA
Synthes	USA

Construction	
Aluplast	Italy
I.K.O.	Canada
Saint Gobain	USA
Wilo SE	Germany
Ceramics	
Cooperativa Ceramica di Imola	Italy
Euroceramique	Spain
Kajaria Ceramics	India
Pamesa Ceramica	Spain
Porcelanosa Group	USA
Sacmi	Italy/Mexico
Serenissima Ceramiche	Italy

Chemical	
Akzo Nobel	Italy
BASF	Spain
DuPont	USA
Firmenich	Switzerland
Grupo AC Marca	Spain
Infracor Gmbh	Germany
Wacker Chemie	Germany

Italy

Tecnografica

Electronics	
ABB	Estonia
Disano Illuminazione	Italy
Emerson Industrial Automation	Brazil
ETI	Slovenia
Johnson Controls	Germany
Kemet	Mexico
Moog	Italy
Rexroth Bosch Group	Germany/Russia
Siemens	USA/Germany/Mexico
Staubli	France
Tyco Electronics	Mexico

Food & Beverage Acetaia di Modena Italy Beam Global Spain Contri Spumanti Italy Damm Spain Marchesi Antinori Italy Mars USA Nestle Great Britain Pepsi Corporation USA Spendrups Sweden Vonpar Refrescos Brazil Yoplait (General Mills) France

Home Improvement	
Alexandria Mouldings	USA
Edilkamin	Hungary
Franke	Italy
Immergas	Italy
Hydraulics/Oledynamics/Pneumatics	
Dicsa	Spain
Festo Pneumatics	Mexico
Hawe Hydraulics	USA/China
HP Hydraulics	Italy
IMM Hydraulics	Italy/Great Britain
Mono Pumps	Great Britain
Sag/Sagom Tubi	Italy

Mechanical/Manufacturing

Bonfiglioli Riduttori	Italy
Comau	Italy/Romania
Fanuc Robotics	Italy
Fliegl	Germany
Honeywell Garrett	Italy/Romania
IMA Industries	Italy
KBA Konig&Bauer	Germany
Marchesini Group	Italy
Otis	Italy
Rodo-Ketten	Germany
Seco Tools	France
Su-matic	Italy
Thyssenkrupp	Brazil/China
Vesuvius	Germany

Paper/Publishing	
Crane & Co	USA
Irving Tissue	USA
MPO	France
Rocktenn Preprint	Canada
SICPA	Brazil
Sofidel	Italy/France

Life Science & Pharmaceutical

Abbott	France
Amgen	USA
Bayer	Mexico
Colgate Palmolive Company	USA
Cooper Vision	USA
Fresenius Kabi	Italy
GlaxoSmithKline	USA
Janssen Pharmaceutical	Belgium
Johnson & Johnson	USA
Roche	Italy

Plastics Lavel Gomma Italy Schwartz Gmbh Germany Trelleborg Great Britain/China Vision Extrusion Canada

Energy	
Babcock & Wilcox	USA
British Petroleum	Great Britain
Conoco Phillips	USA
Dow-Kokam	USA
Duke Energy	USA
Nordex Energy Gmbh	Germany
Petrobras	Brazil
Schlumberger	Mexico

Logistics/Transport Industry	
AVTO LOGISTIKA	Russia
CSX Transportation	USA
DB Service Gmbh	Germany
Infrabel Railway	Belgium
Kuhne + Nagel	Spain/France
MTA Metro North Railroad	USA

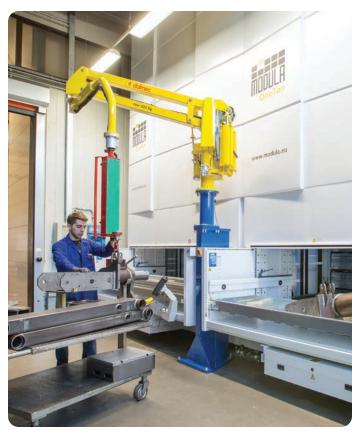
Textiles/Apparel Industry

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



Modula Lift





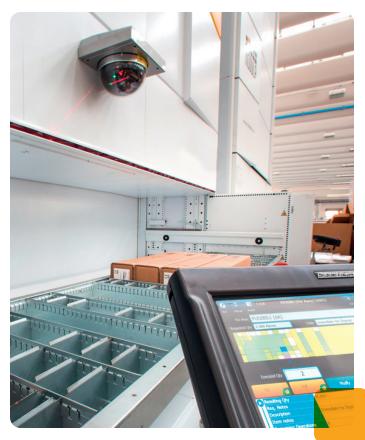




Modula Lift





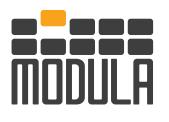




MODULA WORLD



Modula is present in 5 continents with dealers and branches in more than 50 countries



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Modula S.p.A. ITALY HEADQUARTERS Via San Lorenzo, 41 42013 Salvaterra di Casagrande (RE) Tel. 39 0522 774111 info@modula.com www.modula.com



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