



# Modula OneTon

Think Vertical, Think Modula


★ PROUDLY ★



**MADE IN USA**

*from US & Imported Components*

B R A D F O R D  
S Y S T E M S

  
**MODULA**  
[modula.us](http://modula.us)

# A perfect solution for heavier items. Maximized tray load capacity for the entire range of Modula VLMs.

The Modula OneTon is the answer to all of your storage needs for heavier items and materials in your facility. With its 2,200 lbs (990 kg) net payload per tray and complete personnel protection devices for operators, OneTon represents the leading edge of Modula VLM technology.

Modula OneTon is a leader in user ergonomics, designed to provide maximum operator safety in even the most demanding working conditions.

## Before Modula



## After



## Floor Space Recovery



Up to **90%**



1. RECOVER SPACE



2. INCREASE SECURITY



3. SAVE TIME



4. IMPROVE ACCURACY



5. REDUCE RISKS



6. BOOST INVENTORY  
MANAGEMENT

**THROUGHPUT OF UP TO 80 TRAYS/HOUR**

**TRAY ADJUSTABILITY**



**CERTIFICATION**

**STEEL INTERNAL  
FRAME STRUCTURE**

**PRE-COATED EXTERIOR  
PANELS FOR DURABILITY  
& PROTECTION**

**STEEL  
REINFORCED  
TOOTHED  
BELT LIFTING DESIGN**

**TOUCH SCREEN  
OPERATOR CONSOLE**

**USER FRIENDLY  
SOFTWARE INTERFACE**



## 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: **from 73.23" (1,860 mm) to 159.84" (4,060 mm)**  
Tray depths: **25.75" (654 mm) & 33.74" (857 mm)**  
Maximum product heights up to: **27.36" (695 mm)**  
Net tray payload capacities: **from 551 lbs (250 kg) to 2,200 lbs (990 kg)**  
Net unit load capacity: **132,486 lbs (60,000 kg)**  
Gross unit load capacity: **up to 154,000 lbs (70,000 kg)**  
Throughput: **up to 80 trays / hr. (depending on the unit's configuration)**  
Operator interface: **rugged 10.4" color touchscreen operator control console**  
Number of bays: **up to 3 / max 2 on the same side**  
Type of bays: **internal or external, single or dual tray delivery**  
Minimal energy consumption: **4 Hp / 3kW vertical axis motor**  
Automatic tray weight measurement each time a tray is returned  
Dynamic storage of trays depending on the specific height  
Galvanized steel internal frame structure  
Vertical axis lifting design driven by 2 steel reinforced toothed belts  
Extractor's vertical lifting system with 8 HDPE rollers for each side of the elevator

## Maximum load capacities for all tray sizes

Modula OneTon provides a maximum tray load capacity of 2,200 lbs (990 kg) per tray for the entire range of models regardless of tray width or depth, without sacrificing user ergonomics or safety. With the availability of the fully automatic external picking bay, the OneTon may easily be used with overhead lifting devices, cranes or hoists.

## Modula WMS software suite

Modula WMS is a fully featured warehouse management software that can be used to manage the space and utilization of Modula OneTon units or as a standalone software tool. It can easily be interfaced with nearly any ERP system.

## Maximum payload for every tray width

Modula OneTon VLM units offer a wide range of tray dimensions and load capacities. With tray sizes up to 13.3 feet (4.06 meters) wide and load capacities of up to 2,200 lbs, OneTon units are able to meet nearly any application's requirements.

## Operator safety

All Modula units are equipped with physical and optical safety barriers in order to ensure a 100% safe environment to operators. Unit safety is further guaranteed by the TÜV-GS certification obtained for the entire product line.

## Internal or external bay, single or dual delivery

The internal bay is the ideal solution when space is at a premium.

The external bay offers the best possible ergonomic workspace for operators. It can provide further benefits when used in combination with picking aids such as cranes and mechanical manipulators to lift heavy items stored within trays.

Single delivery level is ideal when the machine will be used moderately, or when the picking time is quick.

Dual delivery is the ideal configuration for a fast-paced picking operation.



**SINGLE INTERNAL DELIVERY**



**SINGLE EXTERNAL DELIVERY**

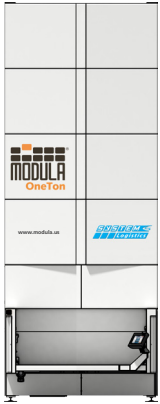


**DUAL INTERNAL DELIVERY**



**DUAL EXTERNAL DELIVERY**

## MA & MAD



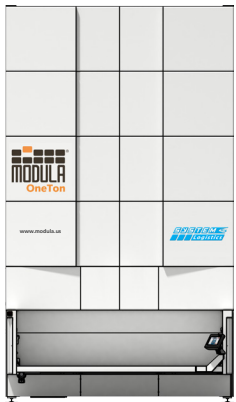
Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray Wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint <b>INTERNAL BAY</b> (Width x Depth) (in/mm)	Unit Footprint <b>EXTERNAL BAY</b> (Width x Depth) (in/mm)
<b>MA1000</b>	73.23 / 1,860	25.75 / 654	4.72 / 120	2,200 / 990	91.22 x 100.63 / 2,317 x 2,556	91.22 x 127.8 / 2,317 x 3,246
<b>MA1000D</b>	73.23 / 1,860	33.74 / 857	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

## MC & MCD



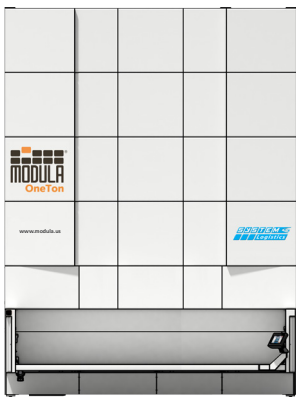
Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray Wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint <b>INTERNAL BAY</b> (Width x Depth) (in/mm)	Unit Footprint <b>EXTERNAL BAY</b> (Width x Depth) (in/mm)
<b>MC1000</b>	96.85 / 2,460	25.75 / 654	4.72 / 120	2,200 / 990	114.84 x 100.63 / 2,917 x 2,556	114.84 x 127.8 / 2,917 x 3,246
<b>MC1000D</b>	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

## MX & MXD

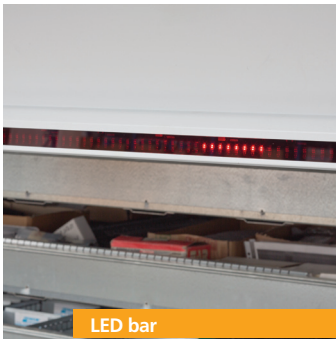


Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray Wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint <b>INTERNAL BAY</b> (Width x Depth) (in/mm)	Unit Footprint <b>EXTERNAL BAY</b> (Width x Depth) (in/mm)
<b>MX1000</b>	120.47 / 3,060	25.75 / 654	4.72 / 120	2,200 / 990	138.46 x 100.63 / 3,517 x 2,556	138.46 x 127.8 / 3,517 x 3,246
<b>MX1000D</b>	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

## ML & MLD



Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray Wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint <b>INTERNAL BAY</b> (Width x Depth) (in/mm)	Unit Footprint <b>EXTERNAL BAY</b> (Width x Depth) (in/mm)
<b>ML1000</b>	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 127.80 / 4,517 x 3,246
<b>ML1000D</b>	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



LED bar



Alphanumeric LED bar



Laser pointer



Badge reader



EKS reader



Put-to-light



Piece counting scale



Label printer



Bar code reader



Sliding console



Weight distribution plates



ESD protection



Modula Green



Tray accessories



Automatic door

# Our REFERENCES

## Accessories

Black&Decker	USA
Colgate Palmolive Company	USA
Costan	Italy
Cristian Lay	Spain
Deny Fontaine	France
Dewalt	USA
GGB	USA
Incold	Italy
Maria Galland	Germany
Osram	Mexico/Italy
Seco Tools	France

## Administrative/Public/Army

A.O.U. Ospedali Riuniti Di Trieste	Italy
US Army / Airforce / Navy	USA
GOZ Obukhov State Plant	Russia
Guardia di Finanza	Italy
National Institutes of STDS	USA
NHS National Services Scotland	Great Britain

## Aeronautic

Barry Controls Aerospace	USA
Bombardier	Germany
Dassault Aviation	France
Embraer	Brazil
Eurocopter	France
Israel Aerospace Industries	Israel
JPR	France
Krasny Oktyabr	Russia
Lufthansa	China
TFI	France

## Automotive

Automobili Lamborghini	Italy
Axletech	France
Betamotor	Italy
Brembo	Italy/Poland/China
Caterpillar	USA
Chrysler	Mexico
CNH Industrial (FIAT)	Spain/Belgium
Continental	Germany/Romania/Serbia
Daimler	Germany
Ferrari	Italy
FIAT	Italy/Serbia
Ford	Spain
Goodyear	Germany
Iveco (FIAT)	Spain
John Deere	USA
Renault	France
New Holland Tractor (FIAT)	Holland
Pagani Automobili	Italy
Porsche	Germany
Volkswagen	Germany/China

## Biomechanical/Biomedical Industry

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

## Construction Industry

Aluplast	Italy
I.K.O.	Canada
Saint Gobain	USA
Wilo SE	Germany

## Ceramic Industry

Cooperativa Ceramica di Imola	Italy
Euroceramique	Spain
Kajaria Ceramics	India
Pamesa Ceramica	Spain
Porcelanosa Group	USA
Sacmi	Italy/Mexico
Serenissima Ceramiche	Italy
Tecnografica	Italy

## Chemical

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

## Electrical/Electronic Industry

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 Industry

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

## Furnishing

Alexandria Mouldings	USA
Edilkamin	Hungary
Franke	Italy
Immergas	Italy

## Hydraulic/Oledynamic/Pneumatic Industry

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
Su-matic	Italy
Thyssenkrupp	Brazil/China
Vesuvius	Germany

## Paper Industry/Publishing

Crane&Co	USA
Inving Tissue	USA
MPO	France
Rocktenn Preprint	Canada
SICPA	Brazil
Sofidel	Italy/France

## Pharmaceutical

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

## Plastic Industry

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

## Energy Industry

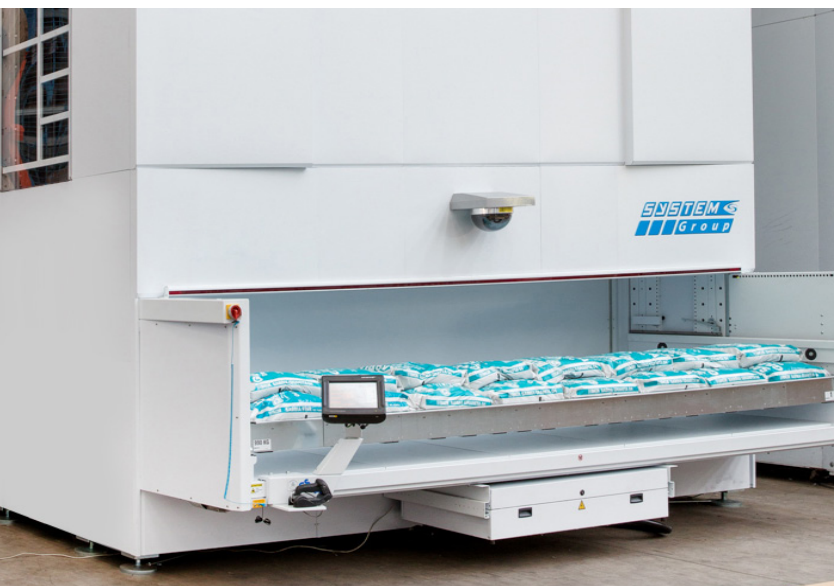
Babcock & Wilcox	USA
BP British Petroleum	Great Britain
Conoco Phillips	USA
Dow-Kokam	USA
Duke Energy	USA
Nordex Energy GmbH	Germany
Petrobras	Brazil
Schlumberger	Mexico

## 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

## Textile Industry/Clothing Industry

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



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