Modula OneTon

Think Vertical, Think Modula
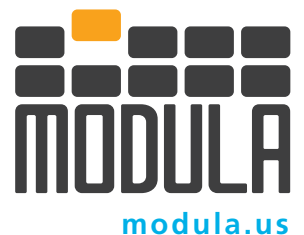
MODULA

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 $\longrightarrow$ **After**

Floor Space Recovery $\longrightarrow$ 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

1.0" 1.0" 1.0"

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

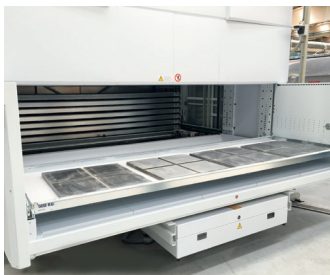The internal bay is the ideal solution when space is at a premium.

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.
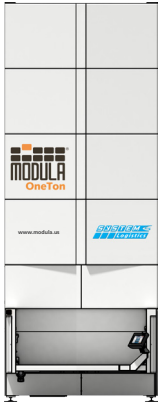
SINGLE INTERNAL DELIVERY   **SINGLE EXTERNAL DELIVERY**   **DUAL INTERNAL DELIVERY**   **DUAL EXTERNAL DELIVERY**
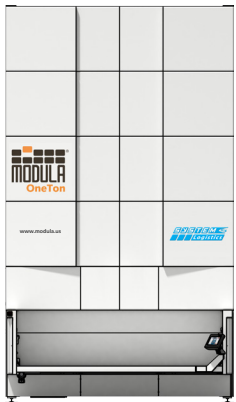
MA & MAD

Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray Wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in/mm)
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 100.63 / 2,317 x 2,556	91.22 x 127.8 / 2,317 x 3,246

MC & MCD

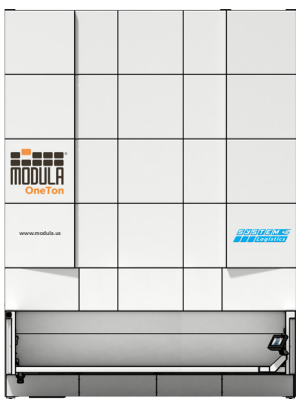| Model	Tray Width (in/mm)	Tray Depth (in/mm)	Tray Wall Height (in/mm)	Maximum Tray Load Capacity (lbs/kg)	Unit Footprint INTERNAL BAY (Width x Depth) (in/mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (in/mm)
MC1000	96.85 / 2,460	25.75 / 654	4.72 / 120	2,200 / 990	114,84 x 100.63 / 2,917 x 2,556	114.84 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

MX & MXD

| 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)
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

ML & MLD

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)
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 127.80 / 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
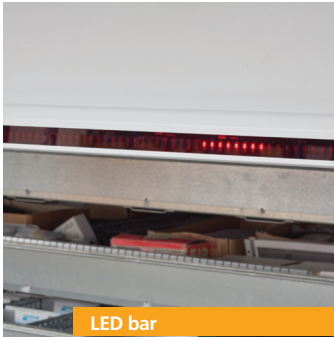
MODULA
OneTon

LED bar

Alphanumeric LED bar

Laser pointer

Badge reader

EKS reader
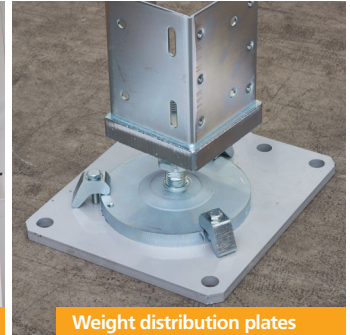

Put-to-light

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
Irving 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 Philips	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

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

MODULA US HEADQUARTERS
90 Alfred A. Plourde Parkway
Lewiston, ME 04240
Tel. + 1.888.233.6796
Fax + 1.207.786.0271
info@modula.us
www.modula.us

MODULA ITALY HEADQUARTERS
Via San Lorenzo, 41 - 42013
Salvaterra di Casalgrande (Re) ITALY
Tel. +39 0522 774111
Fax +39 0522 774175
info@modula.eu
www.modula.eu

Modula is part of