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Modula OneTon

Think Vertical, Think Modula

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 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



After



**Floor Space
Recovery**



**Up to 90%
to**



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

25 mm 25 mm 25 mm

PRE-COATED EXTERIOR
STEEL PANELS

STEEL
REINFORCED
TOOTHED BELT

CERTIFICATION

STEEL INTERNAL
FRAME STRUCTURE

TOUCH SCREEN
OPERATOR CONSOLE

USER FRIENDLY
SOFTWARE INTERFACE



Technical highlights

Unit heights: **from 3.300 mm to 14.100 mm**

Unit height increments on: **200 mm**

Tray storage adjustability: **25 mm**

Tray widths: **from 1.860 mm to 4.060 mm**

Tray depths: **654 mm & 857 mm**

Maximum product heights up to: **695 mm**

Net tray payload capacities: **from 250 kg to 990 kg**

Net unit load capacity: **60.000 kg**

Gross unit load capacity: **70.000 kg**

Throughput: **up to 80 trays / hr** (depending on the unit's configuration)

Operator interface: **rugged 10.4" colour touchscreen control console**

Number of bays: **up to 3 / max 2 on the same size**

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

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

Automatic tray weight measurement each time a tray is returned

Dynamic storage of trays depending on the specific height

Internal zinc coated steel 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 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 space and utilization of Modula OneTon units management 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 4.060 mm wide and load capacities of up to 990 kg, 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 TÜV-GS certification obtained for the entire product line.

Internal or external bay, single or dual delivery

Modula offers 4 different type of bays.

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 (mm)	Tray Depth (mm)	Tray Wall Height (mm)	Maximum Tray Load Capacity (kg)	Unit Footprint INTERNAL BAY (Width x Depth) (mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (mm)
MA1000	1.860	654	120	990	2.317 x 2.556	2.317 x 3.246
MA1000D	1.860	857	120	990	2.317 x 3.165	2.317 x 4.058



MC & MCD

Model	Tray Width (mm)	Tray Depth (mm)	Tray Wall Height (mm)	Maximum Tray Load Capacity (kg)	Unit Footprint INTERNAL BAY (Width x Depth) (mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (mm)
MC1000	2.460	654	120	990	2.917 x 2.556	2.917 x 3.246
MC1000D	2.460	857	120	990	2.917 x 3.165	2.917 x 4.058



MX & MXD

Model	Tray Width (mm)	Tray Depth (mm)	Tray Wall Height (mm)	Maximum Tray Load Capacity (kg)	Unit Footprint INTERNAL BAY (Width x Depth) (mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (mm)
MX1000	3.060	654	120	990	3.517 x 2.556	3.517 x 3.246
MX1000D	3.060	857	120	990	3.517 x 3.165	3.517 x 4.058



ML & MLD

Model	Tray Width (mm)	Tray Depth (mm)	Tray Wall Height (mm)	Maximum Tray Load Capacity (kg)	Unit Footprint INTERNAL BAY (Width x Depth) (mm)	Unit Footprint EXTERNAL BAY (Width x Depth) (mm)
ML1000	4.060	654	145	990	4.517 x 2.556	4.517 x 3.246
ML1000D	4.060	857	145	990	4.517 x 3.165	4.517 x 4.058

Our **OPTIONS**



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

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

Aeronautic

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

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
Frankle	Italy
Immergas	Italy

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

Paper Industry/Publishing

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

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

Construction Industry

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

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

Pharmaceutical

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

Hydraulic/Oleodynamic/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

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

Mechanical/Metallurgy

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

Plastic Industry

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

Administrative/Public/Army

A.O.U. Ospedali Riuniti Di Trieste	Italy
GOZ Obukhov State Plant	Russia
Guardia di Finanza	Italy
National Institutes of STDS	USA
NHS National Services Scotland	Great Britain
US Army / Airforce / Navy	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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Modula is present in 5 continents with dealers and branches located in over 30 countries.

 **Vertical
Lift
Machines**

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