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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 side**  
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

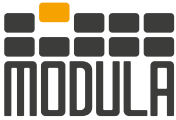
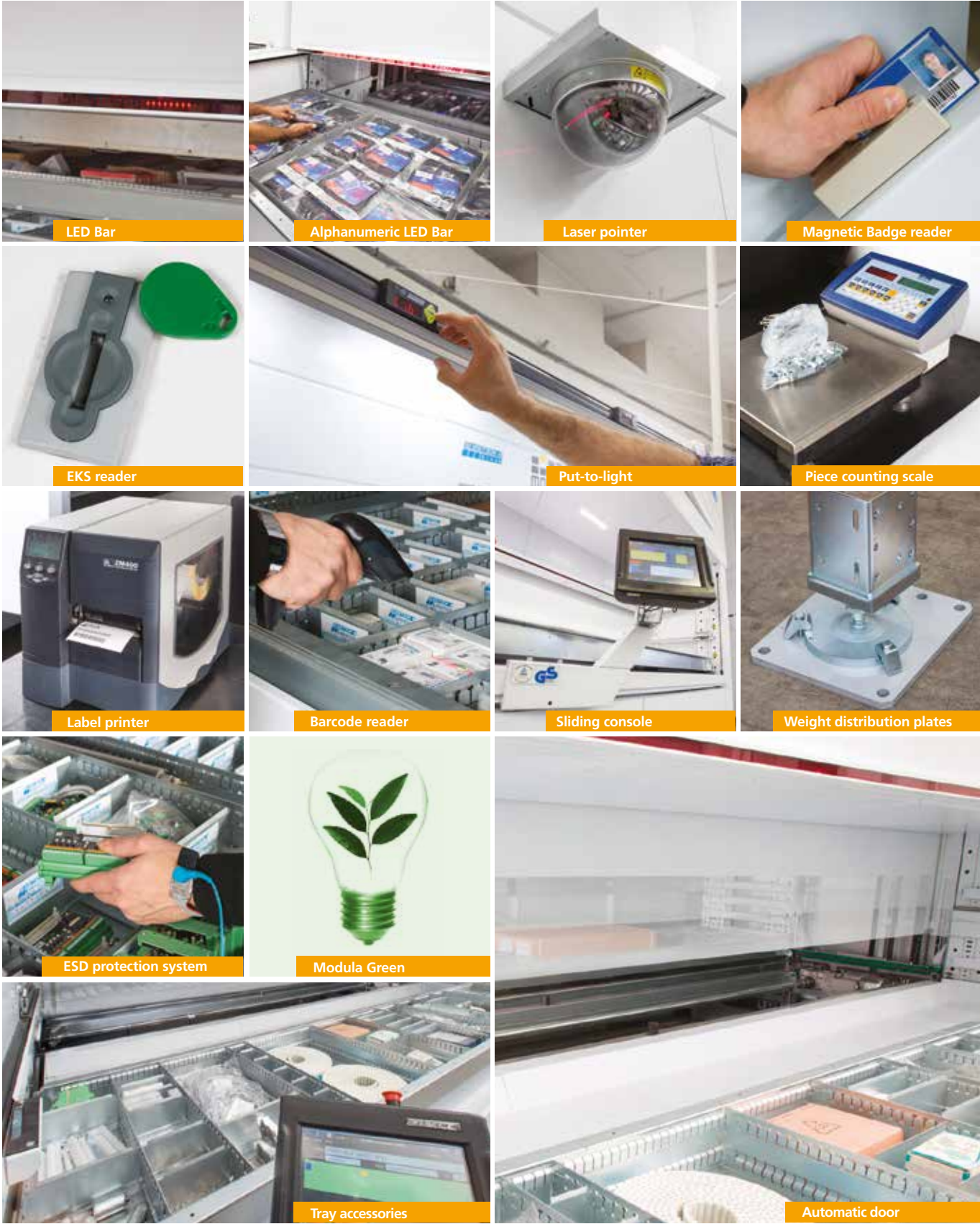
### MX & MXD

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





Accessories	Biomechanical/Biomedical Industry	Pharmaceutical
Black&Decker Colgate Palmolive Company Costan Cristian Lay Deny Fontaine Dewalt GGB Incold Maria Galland Osram Seco Tools	Biotec Fatro SPA Medison co. Merit Medical Systems Neodent Steris Corporation Symrise Synthes	Abbott Amgen Bayer Cooper Vision Fresenius Kabi GlaxoSmithKline Janssen Pharmaceutical Johnson & Johnson Roche
Aeronautic	Paper Industry/Publishing	Hydraulic/Oledynamic/Pneumatic Industry
Bombardier Dassault Aviation Embraer Eurocopter Israel Aerospace Industries JPR Krasny Oktyabr Lufthansa TFI	Crane&Co Irving Tissue MPO Rocktehn Preprint SICPA Sofidel	Dicsa Festo Pneumatics Hawe Hydraulics HP Hydraulics IMM Hydraulics Mono Pumps Sag/Sagom Tubi
Food Industry	Ceramic Industry	Logistics/Transport Industry
Acetaia di Modena Beam Global Contri Spumanti Damm Marchesi Antinori Mars Nestle Pepsi Corporation Spendrups Vonpar Retrescos Yoplait (General Mills)	Cooperativa Ceramica di Imola Euroceramique Kajaria Ceramics Pamesa Ceramica Porcelanosa Group Sacmi Serenissima Ceramiche Tecnografica	AVTO LOGISTIKA CSX Transportation DB Service Gmbh Infraabel Railway Kuhne + Nagel MTA Metro North Railroad
Furnishing	Chemical	Mechanical/Metallurgy
Alexandria Mouldings Edilkamin Franke Immergas	Alkzo Nobel BASF Dupont Firmenich Grupo AC Marca Infracor Gmbh Wacker Chemie	Bonfiglioli Riduttori Comau Fanuc Robotics Fliegl Honeywell Garrett IMA Industries KBA Konig&Bauer Marchesini Group Otis Rodo-ketten Su-matic Thyssenkrupp Vesuvius
Automotive	Construction Industry	Plastic Industry
Automobili Lamborghini Axletech Betamotor Brembo Caterpillar Chrysler CNH Industrial (FIAT) Continental Daimler Ferrari FIAT Ford Goodyear Iveco (FIAT) John Deere Renault New Holland Tractor (FIAT) Pagani Automobili Porsche Volkswagen	Aluplast I.K.O. Saint Gobain Wilo SE	Lavel Gomma Schwartz Gmbh Trelleborg Vision Extrusion
	Electrical/Electronic Industry	Administrative/Public/Army
	ABB Disano Illuminazione Emerson Industrial Automation ETI Johnson Controls Kemet Moog Rexroth Bosch Group Siemens Staubli Tyco Electronics	A.O.U. Ospedali Riuniti Di Trieste GOZ Obukhov State Plant Guardia di Finanza National Institutes of STDS NHS National Services Scotland US Army / Airforce / Navy
	Energy Industry	Textile Industry/Clothing Industry
	Babcock & Wilcox BP British Petroleum Conoco Philips Dow-Kokam Duke Energy Nordex Energy Gmbh Petrobras Schlumberger	Cotton Republic Giorgio Armani Operations Jeans Knit PVT Ltd Max Mara Group Valentino





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

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