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Think Vertical, Think Modula

Options

INDEX

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#	COMPATIBLE OPTIONS	NOT COMPATIBLE WITH OPTIONS	LIFT — INTERNAL BAY MA/MX/MC/ML	ME	DD	DISPLACED	CLEAN ROOM	CLIMATE CONTROL	LIFT — EXTERNAL BAY MA/MX/MC/ML	ME	DD	DISPLACED	CLEAN ROOM	WMS REQUIRED
1	LED BAR	2	●	●	●	●	●	●	●	●	●	●	●	●
2	ALPHANUMERIC BAR	1	●	●	●	●	●	●	●	●	●	●	●	●
3	LASER POINTER		●	●	●	●	●	●	●	●		●	●	●
4	MAGNETIC BADGE READER	5 6	●	●	●	●	●	●	●	●	●	●	●	●
5	EKS READER	4 6	●	●	●	●	●	●	●	●	●	●	●	●
6	RFID BADGE READER	4 5	●	●	●	●	●	●	●	●	●	●	●	●
7	BARCODE READER		●	●	●	●	●	●	●	●	●	●	●	●
8	SLIDING COPILOT CONSOLE	9 14 21	●		●	●			●		●	●		
9	TELESCOPIC BAY	8 13 14 21	●	●	●	ONLY 250 KG								
10	FOOT TASK BAR COMPLETE		●	●	●		●	●	●	●	●	●	●	●
11	END PICKING BUTTON		●	●	●		●	●	●	●	●	●	●	●
12	EXTERNAL BAY LIGHTING	21							●	●	●	●	●	
13	ESD PROTECTION SYSTEM	9 21	●	●	●	●		●	●	●	●	●	●	
14	ROBOT INTERFACE	8 9 21	●	●	●	●	●		●	●	●	●		●
15	WEIGHT DISTRIBUTION PLATES		●	●	●	●	●	●	●	●	●	●	●	
16	OVERSIZED FEET													
17	ELECTRIFIED TRAYS	26	●			●			●			●		
18	MODULA GREEN	30 31	●	●	●	●	●	●	●	●	●	●	●	
19	AUTOMATIC DOOR (LIFT)		●	●	●	STANDARD	STANDARD	STANDARD	●	●	●	STANDARD	STANDARD	
20	MANUAL DOOR (SLIM)													
21	TROLLEY	8 9 12 13 14	●	●	●									●
22	PUT TO LIGHT	23 32	●	●	●	●		●	●	●	●	●		●
23	PICKING CART	22 32	●	●	●	●		●	●	●	●	●		●
24	COUNTING SCALE		●	●	●	●	●	●	●	●	●	●	●	●
25	LABEL PRINTER		●	●	●	●	●	●	●	●	●	●	●	●
26	TRAY OPTIONS	17						●	●	●	●			
27	PERFORATED PANELS FOR VENTILATED MACHINES	35	●	●	●	●			●	●	●	●		
28	ZERO °C	36	●	●	●	●			●	●	●	●		
29	TRANSFORMER PANELS	18 32	●	●	●	●			●	●	●	●		
30	SINGLE-PHASE POWER SUPPLY	18 30 31	●	●		●	●		●	●		●	●	
31	PICKING STATION	22 23	●	●	●	●		●	●	●	●	●		●
32	BIN OPTIONS (SHELF, REINFORCEMENT, TOP COVER)	HC												
33	ACCESS GATE FOR MAINTENANCE	HC												
34	FIRE FIGHTING SYSTEM	27 28	●	●	●	●	●	●	●	●	●	●	●	
35	INDUSTRIAL ELECTRICAL PANEL	29	●	●	●	●	●	STANDARD	●	●	●	●	●	
36	ALUMINIUM SIDE CENTRAL PANELS		●	●	●	●			●	●	●	●		

COMPATIBLE OPTIONS	NOT COMPATIBLE WITH OPTIONS	INTERNAL BAY	EXTERNAL BAY	SLIM	ONEPICK	HC	WMS REQUIRED
1 LED BAR		•	•	•		DEDICATED VERSION	•
2 ALPHANUMERIC BAR		•	•	•			•
3 LASER POINTER		•	•	•			•
4 MAGNETIC BADGE READER	6	•	•	•		•	•
5 EKS READER	6	•	•	•		•	•
6 RFID BADGE READER	5	•	•	•		•	•
7 BARCODE READER		•	•	•		•	•
8 SLIDING COPILOT CONSOLE	14 21	•	•				
9 TELESCOPIC BAY	13 14 21	ONLY 250 KG					
10 FOOT TASK BAR COMPLETE			•				•
11 END PICKING BUTTON		•	•	STANDARD		STANDARD	•
12 EXTERNAL BAY LIGHTING			•				
13 ESD PROTECTION SYSTEM	21	•	•	•			
14 ROBOT INTERFACE	9 21	•	•		STANDARD		•
15 WEIGHT DISTRIBUTION PLATES				•	•		
16 OVERSIZED FEET							
17 ELECTRIFIED TRAYS							
18 MODULA GREEN	32	•	•				
19 AUTOMATIC DOOR (LIFT)		•	•	•			
20 MANUAL DOOR (SLIM)							
21 TROLLEY	9 12 13 14			•			•
22 PUT TO LIGHT	33	•	•	•	•	•	•
23 PICKING CART	33	•	•	•	•	•	•
24 COUNTING SCALE		•	•	•	•	•	•
25 LABEL PRINTER		•	•	•	•	•	•
26 TRAY OPTIONS		•	•	•	STANDARD		
27 SPRINKLER PREDISPOSITION		•	•		•		
28 PERFORATED PANELS FOR VENTILATED MACHINES					•		
29 ZERO °C		•	•				
30 REMOTE ELECTRICAL PANEL	37						
31 TRANSFORMER PANELS	32	•	•	CONFIG/SERIES	•	DEDICATED VERS. (575 VAC)	
32 SINGLE-PHASE POWER SUPPLY	30 31	•	•				
33 PICKING STATION		•	•	•	•		
34 BIN OPTIONS (SHELF, REINFORCEMENT, TOP COVER)	HC				•	•	•
35 ACCESS GATE FOR MAINTENANCE	HC					•	
36 FIRE FIGHTING SYSTEM							
37 INDUSTRIAL ELECTRICAL PANEL	30				•	STANDARD	
38 ALUMINIUM SIDE CENTRAL PANELS					•		

VISUAL PICKING AIDS

These aids reduce the chance of operator error by making the picking and filling process more efficient and precise.

LED BAR

The LED bar is installed on the upper part of the operator bay, in a clearly visible position.
When a specific segment of the bar lights up, this indicates clearly and precisely the section of the tray involved in the picking/refilling operation. By indicating the position of an item on the tray's X axis (width), the operator can quickly identify the correct compartment, reducing errors and picking time.

Price List:

MODEL	OPTION	
MA & MA-D (INT/EXT)		
MC & MC-D (INT/EXT)		
MX & MX-D & MX-DD (INT/EXT)	X-Axis LED Bar	
ML & ML-D & ML-DD (INT/EXT)		
MX & MX-D & MX-DD (EXT)		

ALPHANUMERIC BAR

In addition to the characteristics of the LED bar, this device can also provide other information on picking and refiling operations, such as: quantity, code, description of the items to be picked/ refilled and their position on the tray's Y axis (depth), using a system of coordinates.

Price List:

MODEL	OPTION	
ME & ME-D (INT)		
MA & MA-D (INT/EXT)		
MC & MC-D (INT/EXT)		
MX & MX-D		
ML & ML-D	X-Axis Alphanumeric Bar	
MA & MA-D (INT/EXT)		
MC & MC-D (INT/EXT)		
MX & MX-D		
ML & ML-D		

LASER POINTER

Using a 2-axis pointer, the laser selects material using holographic laser lines.
The **red pointer marks** the material along the x-axis (width) and the **green spot marks** the product location on the y-axis (depth).

Price List:

MODEL	OPTION	
ALL MODELS	**Laser Pointer**	

USER AUTHENTICATION

BADGE READER

This magnetic badge reader makes machine access easier. It allows the operator(s) to use their personal badges to access the machine and prevents any unauthorized users. The reader connects directly to the Copilot console via USB port.
N.B.: Access Cards/Badges are not included with purchase.

Price List:

MODEL	OPTION	
ALL MODELS	**Badge reader**	

RFID READER

In order to use this option, Modula WMS software needs to be installed.

Minimum requirement: Base Module package (or greater). The badge reader with built-in RFID technology can be connected directly to the Copilot operator console via the USB port on the Copilot. The badge reader, for user login, is useful if clients wish for a higher level of security when an operator gains access to the machine.

All the operator needs to do to access the system is swipe their ID card. This prevents access by unauthorised operators, which can be gained if standard methods of access are used. This system can add an extra level of security to access using a password. The RFID reader does not require any software to be installed; instead, it can quickly be fixed to any surface – or even just to a shelf – for maximum resistance and reliability.

NB: The cards to be used in conjunction with the badge reader are not included in the delivery of the optional badge reader package.

Price List:

MODEL	OPTION	
ALL MODELS	RFID Reader	

EKS READER

Perfect for industrial applications, the Electronic Key Reader (EKS) has a sturdy structure and
an IP67 protection rating. The key itself is equipped with a memory chip and transponder; and can be
programmed using dedicated software.

The advantages are the same as those with the Badge Reader, but adds the benefit of automatic control logout when the key is removed from the reader.

The device is fitted with an Ethernet interface for connections to control PC which Modula WMS is installed.

N.B: EKS keys are available separately for purchase from Modula.

Price List:

MODEL	OPTION	
ALL MODELS	EKS Reader – Ext bay	
	EKS Reader – Int bay	
	EKS Key - Red	
	EKS Key - Black	
	EKS Key - Blue	
	EKS Key - Green	
	EKS Key - Yellow	

OPTIONS FOR
ORDER PREPARATION

PUT TO LIGHT

Put to Light solutions are **the best choice for order preparation when a fast, intuitive, scalable and error-free process is required.**

In a Put to Light system, the displays visually guide the operator to the locations in which the items for each order must be put.

Each location or bin assigned to an order includes a luminous display.

Sorting is carried out by item. Once an item has been identified, the displays visually indicate to the operator the bin in which it must be placed and the quantity required for each order.

The Modula WMS software that manages the Put to Light system allows the implementation of different picking strategies, including batch picking or multi-order.

Price List:

MODEL	OPTION	
ALL MODELS	Put to Light	

PICKING STATION

A picking station is fixed, complete and modular, equipped with various picking positions. It is made of a sturdy painted steel structure, shelves to support the bins and a number of Put to Light displays with relative controller/power supply.

The modules can be coupled to allow the expansion of the station for those who need to process many orders simultaneously. Intermediate modules are also available for the installation of monitors, label printers, barcode readers or other accessories.

The system must be equipped with the Modula WMS software.

Price List:

MODEL	OPTION	
ALL MODELS	**Picking Station**	

PICKING CART

A picking cart is a mobile, complete and modular station, equipped with various picking positions.

It consists of a painted steel trolley equipped with 4 pivoting wheels for easy maneuverability, shelves for bins, a certain number of Put to Light displays with relative controller, power/backup batteries and WiFi system for wireless connectivity.

The system must be equipped with the Modula WMS software.

Price List:

MODEL	OPTION	
ALL MODELS	**Picking Cart**	

OPTIONS FOR INCREASING PRODUCTIVITY

COUNTING SCALE

An ideal tool for counting the number of objects based off of unitary weight.

The counting scale can quickly measure precise amounts of small objects (bolts, nuts, screws, etc). Scales can be supplied with a single plate with load capacities of 3/6/15/30/60 Kg or with a double plate combination of 3 & 15 Kg or 6 & 30 Kg.

Price List:

These models of counting scales can be inserted in every Modula model.

MODEL	RESOLUTION	PAYLOAD	CODE	
3 kg	0,1 g	3 kg	70001528	
6 kg	0,2 g	6 kg	70001529	
15 kg	0,5 g	15 kg	70001880	
30 kg	1 g	30 kg	70001881	
60 kg	2 g	60 kg	70000541	
3 kg + 15 kg	0,5 (3 kg) - 2 (15 kg)	3 kg + 15 kg	70006029	
6 kg + 30 kg	1 (6 kg) - 5 (30 kg)	6 kg + 30 kg	70006030	

LABEL PRINTER

This is used to print customised sticky labels and posters with information on stored material.

During picking and refilling operations in Modula warehouses, the operator can enter the required information via the Copilot console and print it instantly onto labels to be attached directly to the boxes and packets or to identify the goods.

Price List:

MODEL	OPTION	
ALL MODELS	Label Printer Zebra ZT230	
	Label Printer Zebra GK42	

BARCODE READER

The barcode readers are often used when the items being picked from or refilled into the warehouse have complex codes and are difficult to distinguish. The use of barcodes improves picking accuracy and ensures that the operator selects the right materials. Barcode readers can also be used to confirm orders and/or perform a user login. The barcodes offered are wireless and can therefore easily be taken anywhere.

Price List:

MODEL	OPTION	
ALL MODELS LIFT	Barcode Reader Datalogic Gryphon GBT4500* Bluetooth (1D)	
	Barcode Reader barre Datalogic Powerscan 9500* (2D)	
ALL MODELS SLIM	Barcode Reader Datalogic Rida DBT6400 Bluetooth (1D/2D)	

*Stand not included

SLIDING CONSOLE

The Sliding Copilot Console lets the operator move the touch screen copilot along the length of the picking bay. This makes every operation easier, comfortable, more efficient, and saves the operator walking time.

Price List:

MODEL	OPTION	
MA & MA-D		
MC & MC-D	Sliding Console	
MX & MX-D		
ML & ML-D		

MODEL	OPTION	
MA & MA-D		
MC & MC-D	Heavy Duty Sliding Console	
MX & MX-D		
ML & ML-D		

BAY OPTION

AUTOMATIC AND MANUAL DOOR

The automatic door is a motorised device that offers the following advantages:

• Greater security for the materials stored, as they are not accessible when the machine is switched off or unattended.

• Reduced noise in the operator area.

• Fewer pollutants from the outside environment can enter the machine.

The automatic door is mandatory for some specific configurations (dual internal bay or displaced bays) in order to guarantee operator safety.

For Lift technologies, an automatic door is available; for Slim technologies, however, a door with manual closure can be used.

Price List:

MODEL	OPTION	
ME & ME-D		
MA & MA-D		
MC & MC-D	S Door	
MX & MX-D		
ML & ML-D		

MODEL	OPTION	
ME & ME-D		
MA & MA-D		
MC & MC-D	M Door	
MX & MX-D		
ML & ML-D		

MODEL	OPTION	
ME & ME-D		
MA & MA-D		
MC & MC-D	XL Door	
MX & MX-D		
ML & ML-D		

MODEL	OPTION	
SLIM 1.3		
SLIM 1.9	Manual Door	
SLIM 2.5		

TROLLEY

Available for the Lift and Sintes1 machines with internal bay, this device allows the operator to fully extract a tray from inside the machine, transfer it on to a mobile "Trolley" and transport it around the production unit.

It can be used for trays with maximum payload of 500 kg and standard height off the ground (700 mm).

Price List:

MODEL	OPTION	
ME-D		
MA		
MA-D		
MC		
MC-D	TROLLEY	
MX		
MX-D		
ML		
ML-D		

TELESCOPIC BAY

The Telescopic bay is a device used for extracting trays. It's available for internal bay Modula Lift machines (height from ground 700mm) and is installed at the first delivery level. Once the tray is located in the bay, the operator can manually pull it out and load heavy materials into it.

For trays rated 500, 750 and 1.000 kg the telescopic bay is fitted with support feet with wheels to make it easier to extract heavy loads. Versions with support feet cannot be installed where there is a displaced bay due to the gap between the Modula and the operator workstation.

Price List:

MODEL	OPTION	
MA25		
MA25D	Telescopic Bay	
MA50-75-1000		
MA50D-75D-1000D		

MODEL	OPTION	
MC25		
MC25D	Telescopic Bay	
MC50-75-1000		
MC50D-75D-1000D		

MODEL	OPTION	
ML25		
ML25D	Telescopic Bay	
ML50-75-1000		
ML50D-75D-1000D		

MODEL	OPTION	
MX25		
MX25D	Telescopic Bay	
MX50-75-1000		
MX50D-75D-1000D		

MISCELLANEOUS

END PICKING BUTTON

Used to signify the completion of an order, the End Picking Button provides a practical alternative to the Copilot Console. It must be placed within 10 meters of the machine. The button is independent and does not require hardware modifications to the bay.

Price List:

MODEL	OPTION	
ALL MODELS LIFT	End Picking Button	

FOOT BAR TASK COMPLETE

Located on the ground in front of the bay, completed picking operations can be confirmed with just a tap of the foot.
This allows for hands-free operation.

Price List:

MODELS	BAY	CODE	
MX-ML	INTERNAL	1M004689	
MX-ML	EXTERNAL	1M004718	
MA-MC-ME	INTERNAL	1M004697	
MA-MC-ME	EXTERNAL	1M004719	

EXTERNAL BAY LIGHTING

Supplemental LED light fixtures can be installed above the picking bay.
The LEDs switch on when the tray is in the picking bay, illuminating the stored material for a better operator's view. The Copilot Console can set the duration of the lights and other requested lighting configurations.

Price List:

MODEL	OPTION	
MA & MA-D		
MC & MC-D		
MX & MX-D		
ML & ML-D		

ESD PROTECTION

Warehouses can be fitted with an "ESD" (Electro Static Discharge) protection system, which
can help protect against any electrostatic charges accumulated during operation.
The ESD protection system ensures that the operator area in the bay is effectively protected. The system is equipped with three mobile connection points and one fixed connection point, which all connect to an appropriate grounding point that has a total resistance of 1MΩ (ome- ga symbol). The ESD protection system provides special tray contacts that are installed on the left-hand side of the bay. The incoming tray comes into contact with these points before reaching the operator. The tray contact points are connected to the system's EBP (grounding point), providing a total resistance value of: 1MΩ. In this way, between the operator antistatic wristband connection to the EBP (grounding point) and the tray connection via the tray con- tact points to the EBP (grounding point), any accumulated electrical charges are effectively dissipated in order to prevent serious damage caused by static electricity.

Price List:

MODEL	OPTION	
ALL MODELS LIFT	ESD Protection (single bay)	
	ESD Protection (dual bay)	
SLIM 1.3	ESD Protection (single bay)	
SLIM 1.9		
SLIM 2.5		

ELECTRIFIED TRAY

Allows for the trays to be powered so that any materials requiring electric supply (e.g. rechargeable lamps, computers, radios, etc.) can be used. Comes with a 240 V supply. There is a 10 tray installation limit on each machine.
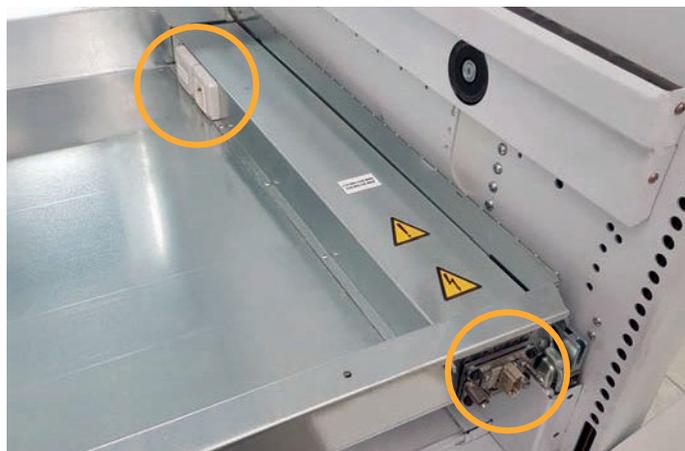
Price List:

To be defined in base of the configuration.

*Only available on Lift models.

ROBOT INTERFACE

Modula warehouses can interface with anthropomorphic robots using a "Robot interface kit" installed on the electrical panel for handling of electrical signals (3 from Modula to Robot, 2 from Robot to Modula).

Modula WMS software includes an interface that uses a software communications protocol based on direct memory access to the robot's PLC (Siemens PLC only) or socket server mode.

Price List:

MODEL	OPTION	
ALL MODELS LIFT	**Robot Interface**	
ALL MODELS SLIM		

* 664.40 fee includes only Robot Interface Kit electrical cabinet predisposition. SW customization and onsite visits are not included.

MODULA GREEN

Installed between the machine's main switch and the electrical panel, this device converts kinetic energy (from the descending elevator) into electricity, feeding back into the grid and improving the process's environmental sustainability.

Price List:

MODEL	OPTION	
ALL MODELS LIFT	Modula Green	

SINGLE-PHASE POWER SUPPLY

A single-phase power supply is an electrical transformation device consisting of an electrical panel that allows you to convert the 230 Vac single-phase main power supply into 575 Vdc and 440 Vac power supplies.
This allows the machines to be installed and operated according to specifications – even in situations where a threephase 400 Vac power supply is not present.
The device cannot be installed after machine installation; therefore, it must be purchased at the same time as the machine on which it is to be installed.

Price List:

MODEL	OPTION	
ALL MODELS LIFT & SLIM	Single-Phase Power Supply	

TRAY

MODELS LIFT MA & MA-D

MODEL	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Code	
MA25	1.900	654	45	250	3362552425	
MA25	1.900	654	70	250	3362552427	
MA25	1.900	654	120	250	**3362552429**	
MA50	1.900	654	70	500	3362552310	
MA50	1.900	654	120	500	3362552429	
MA75	1.900	654	70	750	3362552312	
MA75	1.900	654	120	750	3362552318	
MA1000	1.860	654	120	990	1M000892	
MA25D	1.900	857	45	250	3362552426	
MA25D	1.900	857	70	250	3362552428	
MA25D	1.900	857	120	250	3362552430	
MA50D	1.900	857	70	500	3362552311	
MA50D	1.900	857	120	500	3362552317	
MA75D	1.900	857	70	750	3362552313	
MA75D	1.900	857	120	750	3362552319	
MA1000D	1.860	857	120	990	1M000898	

MODELS LIFT MC & MC-D

MODEL	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Code	
MC25	2.500	654	45	250	3362552320	
MC25	2.500	654	70	250	3362552431	
MC25	2.500	654	120	250	3362552433	
MC50	2.500	654	70	500	3362552326	
MC50	2.500	654	120	500	3362552332	
MC75	2.500	654	70	750	3362552328	
MC75	2.500	654	120	750	3362552334	
MC1000	2.460	654	120	990	1M000889	
MC25D	2.500	857	45	250	3362552321	
MC25D	2.500	857	70	250	3362552432	
MC25D	2.500	857	120	250	3362552434	
MC50D	2.500	857	70	500	3362552327	
MC50D	2.500	857	120	500	3362552335	
MC75D	2.500	857	70	750	3362552329	
MC75D	2.500	857	120	750	3362552335	
MC1000D	2.460	857	120	990	1M000899	

MODELS LIFT MX & MX-D

MODEL	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Code	
MX25	3.100	654	45	250	3362552336	
MX25	3.100	654	70	250	3362552340	
MX25	3.100	654	120	250	3362552346	
MX50	3.100	654	70	500	3362552342	
MX50	3.100	654	120	500	3362552348	
MX75	3.100	654	70	750	3362552344	
MX75	3.100	654	120	750	3362552350	
MX1000	3.060	654	120	990	1M000893	
MX25D	3.100	857	45	250	3362552339	
MX25D	3.100	857	70	250	3362552341	
MX25D	3.100	857	120	250	3362552347	
MX50D	3.100	857	70	500	3362552343	
MX50D	3.100	857	120	500	3362552349	
MX75D	3.100	857	120	750	3362552351	
MX1000D	3.060	857	120	990	1M000763	

MODELS LIFT ML & ML-D

MODEL	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Code	
ML25	4.100	654	70	250	1M004660	
ML25	4.100	654	120	250	3362552362	
ML50	4.100	654	120	500	3362552364	
ML75	4.100	654	120	750	3362552366	
ML1000	4.060	654	145	990	1M000888	
ML25D	4.100	857	70	250	3362552359	
ML25D	4.100	857	120	250	3362552363	
ML50D	4.100	857	120	500	3362552365	
ML75D	4.100	857	120	750	3362552367	
ML1000D	4.060	857	145	990	1M000819	

MODELS SLIM

MODEL	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Code	
SLIM 1.3	1.300	425	45	350	1M006067	
SLIM 1.9	1.900	425	45	350	1M006930	
SLIM 2.5	2.500	425	45	350	1M007153	

TRAY ACCESSORIES

To best suit the client's needs, the trays can be equipped with slotted partitions and plain wall dividers that separate the tray into individual compartments. For Lift and Sintes1 models, side wall extension options are also available to increase the tray's overall height.
Available for all Modula Lift and Sintes1 models.

PARTITIONS

DIVIDERS

TRAY SIDE EXTENSIONS
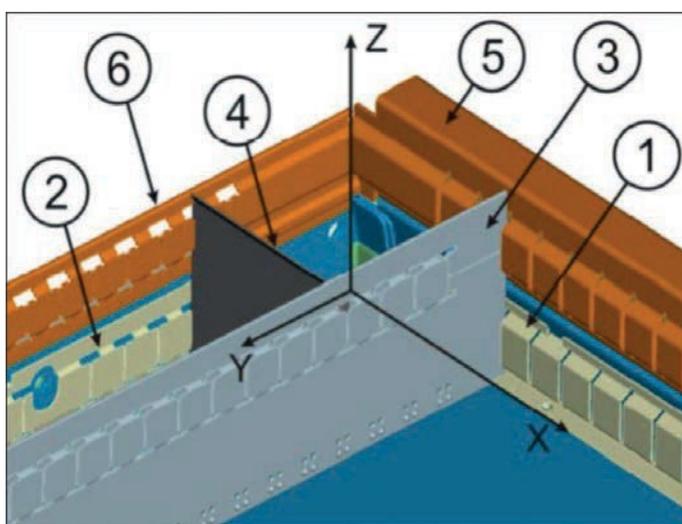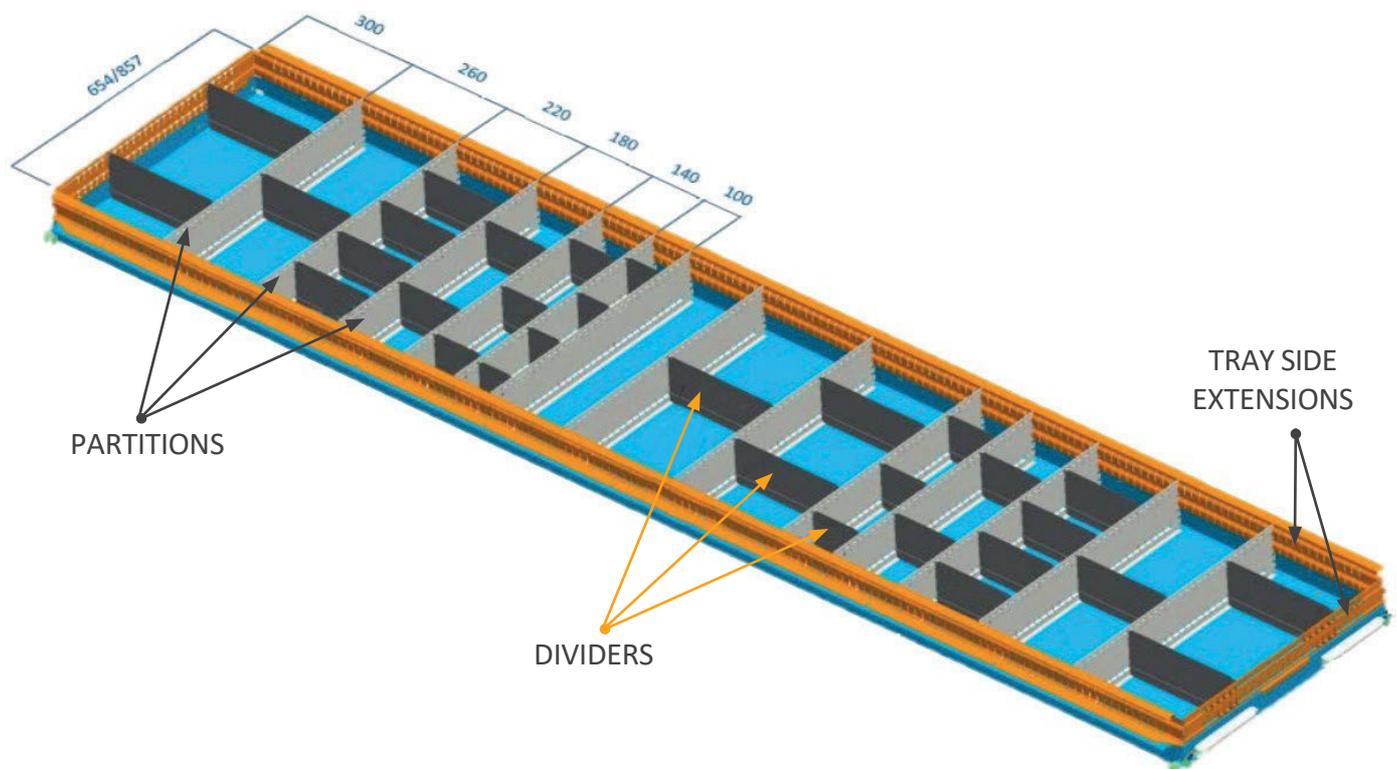
1. Slotted tray wall (Width)

2. Slotted tray wall (Depth)

3. Partition (Width)

4. Divider (Depth)

5. Tray side Extension (Width)

6. Tray Wall Height (Depth)

LIFT TRAY SLOTTING PROFILES

Modula Lift trays may be purchased with either plain, smooth perimeter walls or with slotted perimeter walls. Slotted perimeter walls are equipped with slotted profiles on 20 mm increments to allow for adjustable partitions and dividers to be used as desired. A slotted tray is simply a plain wall tray that has "slotted profiles" installed around the perimeter of each tray's walls. The slotting profiles are easily installable at any time. Below there is an image and accompanying table showing the slotting profile length and heights available.

TRAY SLOTTING PROFILES SHORT SIDE:
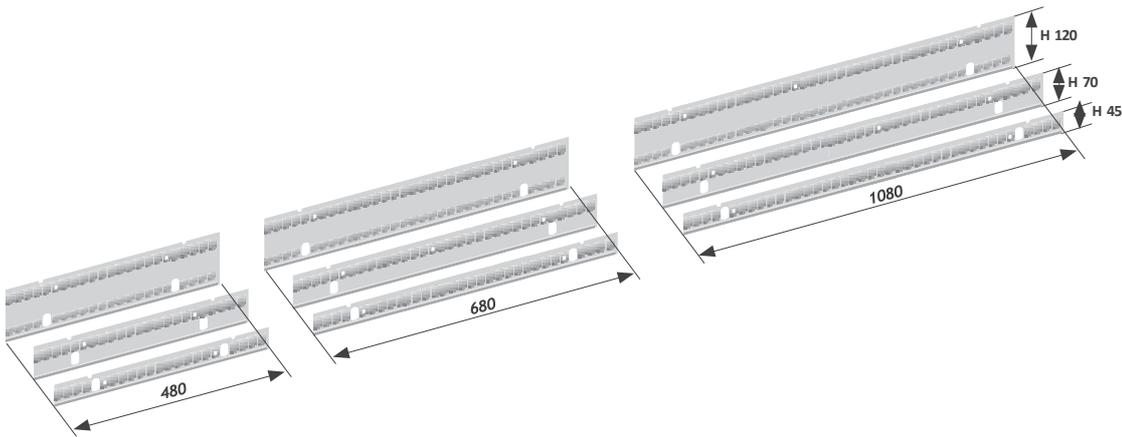
TRAY WALL HEIGHT	TRAY DEPTH		
	654 mm	857 mm	1.257 mm
45 mm	✔	✔	✔
70 mm	✔	✔	✔
120 mm	✔	✔	✔
145 mm	✔*	✔*	✔*

*For the trays high 145 mm are used trays options high 120 mm

TRAY SLOTTING PROFILES LONG SIDE:
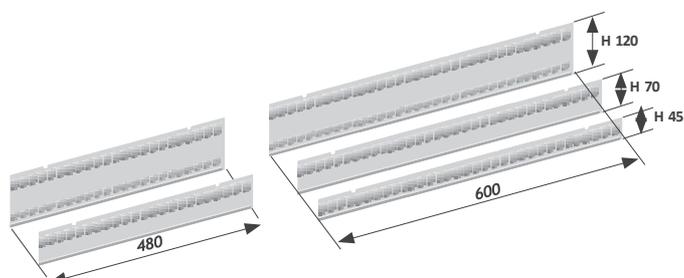
TRAY WALL HEIGHT	TRAY LENGTH	
	480 mm	600 mm
45 mm	✖	✔
70 mm	✔	✔
120 mm	✔	✔
145 mm	✔ *	✔ *

*For the trays high 145 mm are used trays options high 120 mm

MODEL	TRAY WIDTH	COMPOSITION						
MA/MAD	1.900 mm		600	600	600			
MC/MCD	2.500 mm		600	600	600	600		
MX/MXD/MXD	3.100 mm		600	600	600	600	600	
ML/MLD	4.100 mm	480	600	600	600	600	600	480

Tray slotting profile code

The Trays Slotting Profiles are comprised of the following code and quantity:

MODEL	TRAY WALL HEIGHT (mm)	CODE	QUANTITY	
MA	45	1U000122		
	70	1U000123		
	120	1U000124		
MAD	45	1U000125		
	70	1U000126		
	120	1U000127		
MC	45	1U000128		
	70	1U000129		
	120	1U000130		
MCD	45	1U000131		
	70	1U000132		
	120	1U000133		
ME	45	1M008252		
	70	1M008255		
	120	1M008368		
MED	45	1M008254		
	70	1M008256		
	120	1M008369		

MODEL	TRAY WALL HEIGHT (mm)	CODE	QUANTITY	
MX	45	1U000134		
MX	70	1U000135		
MX	120	1U000136		
MXD	45	1U000137		
MXD	70	1U000138		
MXD	120	1U000139		
ML	70	1U000140		
ML	121/145	1U000141		
MLD	70	1U000142		
MLD	120/145	1U000143		

LIFT Slotted partitions

The slotted partitions offer the customer the opportunity to divide the tray along the Y axis. These are as long as the depth of the tray and have different heights, as shown in the table below. They are sold in batches of 50, 40, 30, 25 depending on their size.
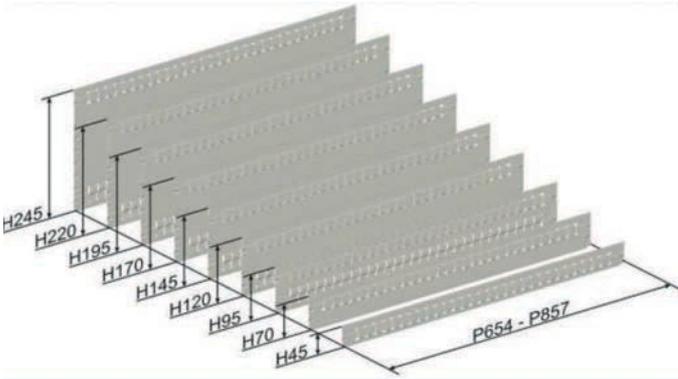
Price List:

The partitions are sold in groups of 50, 40, 30, 25 according to their dimensions.

WIDTH (mm)	HEIGHT (mm)	CODE	PIECE FOR PACKAGE	
654	45	8336486500	50	
	70	8336486700	50	
	95	8336486900	50	
	120	8336487100	50	
	145	8336487300	50	
	170	8336487500	40	
	195	8336487700	30	
	220	8336487900	50	
	245	8336488100	25	
857	45	8336486600	50	
	70	8336486800	50	
	95	8336487000	40	
	120	8336487200	40	
	145	8336487400	50	
	170	8336487600	25	
	195	8336487800	25	
	220	8336488000	50	
	245	8336488200	25	

LIFT plain dividers

Dividers allow the customer to section off the trays along the X-axis.
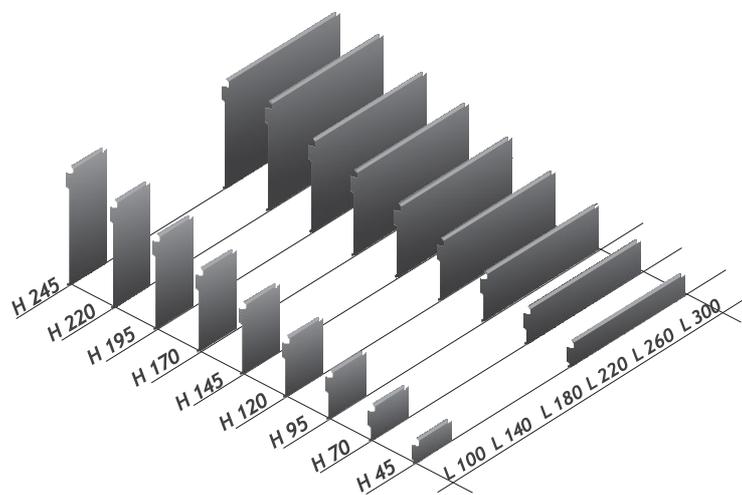
Price List:

The dividers are sold in groups of 50.

HEIGHT (mm)	LENGTH (mm)	CODE	
45	100	8336481100	
	140	8336481200	
	180	8336481300	
	220	8336481400	
	260	8336481500	
	300	8336481600	
70	100	8336481700	
	140	8336481800	
	180	8336481900	
	220	8336482000	
	260	8336482100	
	300	8336482200	
95	100	8336482300	
	140	8336482400	
	180	8336482500	
	220	8336482600	
	260	8336482700	
	300	8336482800	

HEIGHT (mm)	LENGTH (mm)	CODE	
120	100	8336482900	
	140	8336483000	
	180	8336483100	
	220	8336483200	
	260	8336483300	
	300	8336483400	
145	100	8336483500	
	140	8336483600	
	180	8336483700	
	220	8336483800	
	260	8336483900	
	300	8336484000	
170	100	8336484100	
	140	8336484200	
	180	8336484300	
	220	8336484400	
	260	8336484500	
	300	8336484600	
195	100	8336484700	
	140	8336484800	
	180	8336484900	
	220	8336485000	
	260	8336485100	
	300	8336485200	
220	100	8336485300	
	140	8336485400	
	180	8336485500	
	220	8336485600	
	260	8336485700	
	300	8336485800	
245	100	8336485900	
	140	8336486000	
	180	8336486100	
	220	8336486200	
	260	8336486300	
	300	8336486400	

LIFT tray side wall extensions

Modula Lift trays can be equipped with side wall extensions. This solution helps keep tall and/or loose items from falling out of the tray. The extensions can be easily installed into any existing Modula Lift tray and may be added at any time.

PARTITIONS AND DIVIDERS
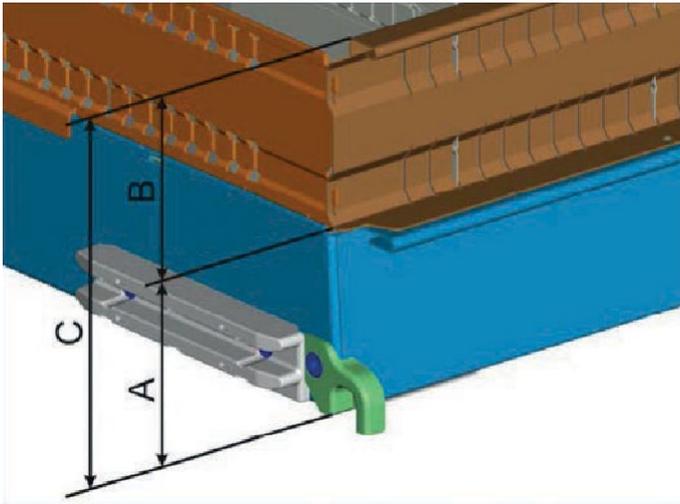
The maximum height of the tray side wall extensions (C) must not exceed 245 mm, total height, including the side **wall height (A)** and the **extension height (B)**.
To achieve the desired overall sidewall height (C), it is recommended that the perimeter walls
(A) of the tray are as tall as possible and then the side wall extensions (B) will be installed to complete the desired height.

COMBINATION TRAYS WITH PARTITIONS

MAXIMUM TRAY HEIGHT+EXTENSION	TRAY HEIGHTS		
	45 mm	70 mm	120 mm
45 mm			
70 mm			
95 mm	50 mm		
120 mm	75 mm	50 mm	
145 mm	100 mm	75 mm	
170 mm	125 mm	100 mm	50 mm
195 mm	150 mm	125 mm	75 mm
220 mm	175 mm	150 mm	100 mm
245 mm	200 mm	175 mm	125 mm

Price List:

For a tray side wall extension supply request to be made, a back up file of the Modula Machine is required to verify the available space inside the machine.

MODEL	HEIGHT (mm)	CODE	
MC 1000 2.460 X 654	50	1M000856	
	75	1M000861	
	100	1M000857	
	125	1M000858	
MC 1000 D 2.460 X 857	50	1M000862	
	75	1M000859	
	100	1M000863	
	125	1M000864	
MX 1000 3.060 X 654	50	1M000865	
	75	1M000866	
	100	1M000867	
	125	1M000868	
MX 1000 D 3.060 X 857	50	1M000869	
	75	1M000870	
	100	1M000871	
	125	1M000872	
ML 1000 4.060 X 654	50	1M000873	
	75	1M000874	
	100	1M000875	
MLD 1000 D 4.060 X 857	50	1M000876	
	75	1M000877	
	100	1M000878	

MODEL	HEIGHT (mm)	CODE	
MA 1.900 X 654	50	3362552289	
	75	3362552297	
	100	3362552373	
	125	3362552381	
	150	3362552389	
	175	3362552397	
	200	3362552405	
MAD 1.900 X 857	50	3362552290	
	75	3362552298	
	100	3362552374	
	125	3362552382	
	150	3362552390	
	175	3362552398	
	200	3362552406	
MC 2.500 X 654	50	3362552291	
	75	3362552299	
	100	3362552375	
	125	3362552383	
	150	3362552391	
	175	3362552399	
	200	3362552407	
MCD 2.500 X 857	50	3362552292	
	75	3362552368	
	100	3362552376	
	125	3362552384	
	150	3362552392	
	175	3362552400	
	200	3362552408	
MX 3.100 X 654	50	3362552411	
	75	3362552413	
	100	3362552415	
	125	3362552417	
	150	3362552419	
	175	3362552421	
	200	3362552423	
MXD 3.100 X 857	50	3362552412	
	75	3362552414	
	100	3362552416	
	125	3362552418	
	150	3362552420	
	175	3362552422	
	200	3362552424	

MODEL	HEIGHT (mm)	CODE	
ML 4.100 X 654	50	3362552295	
	75	3362552371	
	100	3362552379	
	125	3362552387	
	150	3362552395	
	175	3362552403	
MLD 4.100 X 857	50	3362552296	
	75	3362552372	
	100	3362552380	
	125	3362552388	
	150	3362552396	
	175	3362552404	
MA 1000 1.860 X 654	50	1M000849	
	75	1M000850	
	100	1M000851	
	125	1M000860	
MA 1000 D 1.860 X 857	50	1M000852	
	75	1M000853	
	100	1M000854	
	125	1M000855	
MC 1000 2.460 X 654	50	1M000856	
	75	1M000861	
	100	1M000857	
	125	1M000858	
MC 1000 D 2.460 X 857	50	1M000862	
	75	1M000859	
	100	1M000863	
	125	1M000864	
MX 1000 3.060 X 654	50	1M000865	
	75	1M000866	
	100	1M000867	
	125	1M000868	
MX 1000 D 3.060 X 857	50	1M000869	
	75	1M000870	
	100	1M000871	
	125	1M000872	
ML 1000 4.060 X 654	50	1M000873	
	75	1M000874	
	100	1M000875	
MLD 1000 D 4.060 X 857	50	1M000876	
	75	1M000877	
	100	1M000878	

SLIM TRAY OPTIONS

SLIM

The Slim range is made up of various models differentiated by tray width.
Models available: **Slim 1.3 - Slim 1.9 - Slim 2.5.**

MACHINE MODELS AND STANDARD TRAYS

		SLIM 1.3	SLIM 1.9	SLIM 2.5
(A)	Tray width	1300 mm	1900 mm	2500 mm
(B)	Tray depth	425 mm		
(C)	Tray wall height	45 mm		
	Tray payload	350 kg		
	Unladen tray weight	13,4 kg	19,0 kg	27,8 kg
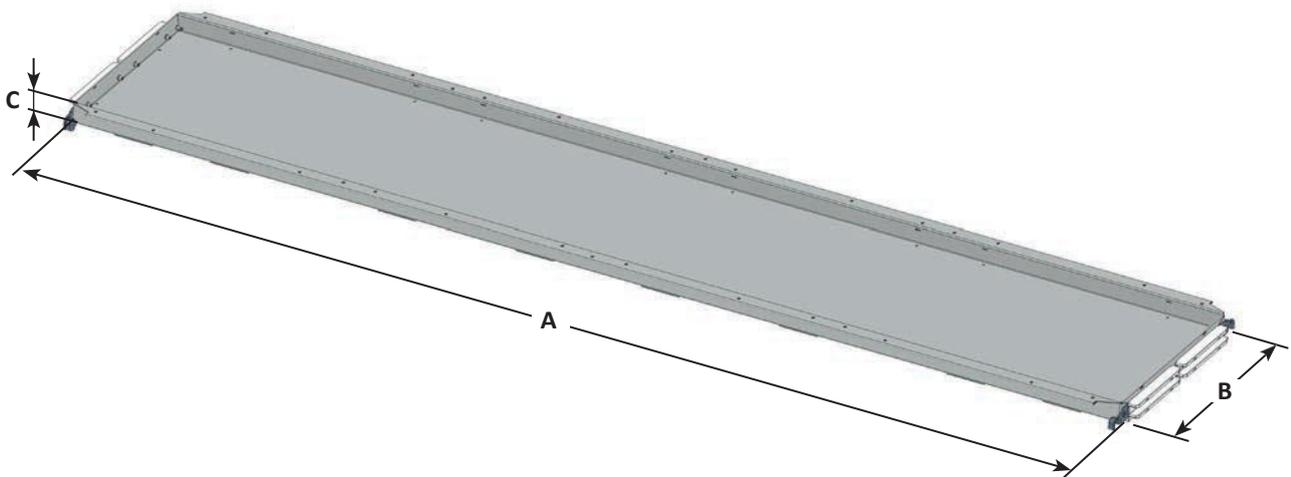
The trays can be equipped with a variety of options (purchased separately) to subdivide into compartments.
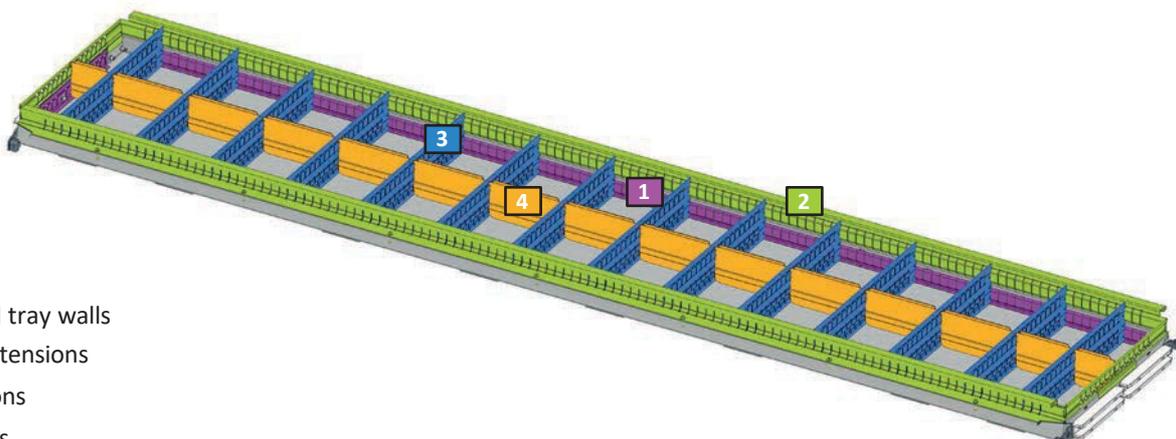
1	Slotted tray walls
2	Tray extensions
3	Partitions
4	Dividers

SLIM - TRAY SLOTTING PROFILE

Modula Slim trays may be purchased with either Smooth Side Walls or Tray Slotting Profiles installed.
The slotting profiles are easily installable at any time and outfit plain trays perimeter.

The perimeter walls are equipped with slotted profiles on 20 mm increments to allow for adjustable partitions and dividers to be used as desired. The slotting can be removed if not needed.
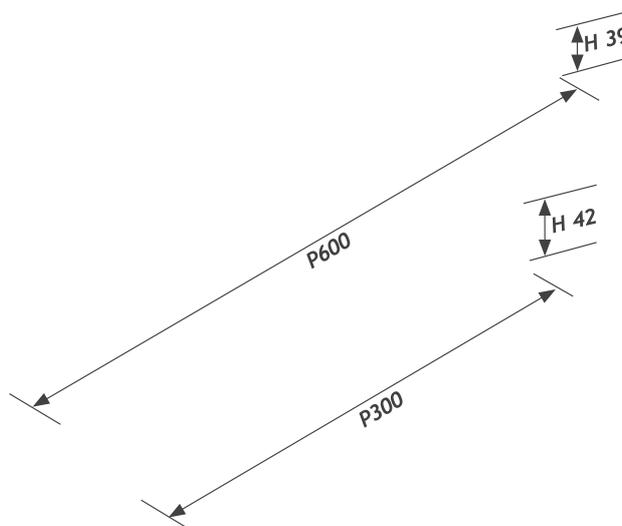
Price List: SLIM TRAY SLOTTING PROFILE

MODEL	TRAY HEIGHT (mm)	CODE	
SLIM 1.3	45	1M007306	
SLIM 1.9	45	1M007095	
SLIM 2.5	45	1M007307	

SLIM - SLOTTED PARTITIONS AVAILABLE

The partitions for Modula Slim allow the customer to divide the trays into sections along the Y-axis.

The partitions have the same length as the depth of the trays and have different heights, as shown below. The partitions are sold in groups of 50.
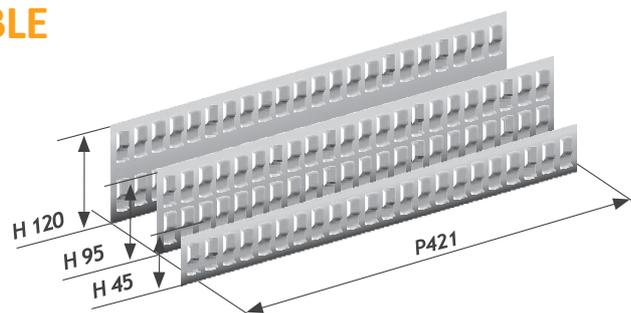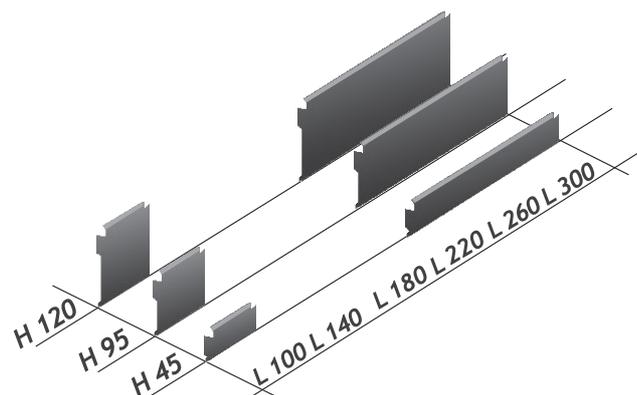

Price List: SLIM SLOTTED PARTITIONS

HEIGHT (mm)	DEPTH (mm)	CODICE	PIECES PER PACKING	
425	45	80102755	50	
	95	80105588	50	
	120	80105589	50	

SLIM - PLAIN DIVIDERS

Dividers allow the customer to divide the trays into sections along the X-axis.

Price List: SLIM PLAIN DIVIDERS

HEIGHT (mm)	DEPTH (mm)	CODE	PIECES PER PACKING	
45	100	8336481100	50	
	140	8336481200	50	
	180	8336481300	50	
	220	8336481400	50	
	260	8336481500	50	
	300	8336481600	50	
95	100	8336482300	50	
	140	8336482400	50	
	180	8336482500	50	
	220	8336482600	50	
	260	8336482700	50	
	300	8336482800	50	
120	100	8336482900	50	
	140	8336483000	50	
	180	8336483100	50	
	220	8336483200	50	
	260	8336483300	50	
	300	8336483400	50	

*Custom dividers are available upon request

SLIM - TRAY SIDE WALL EXTENSIONS

Modula Slim trays can be equipped with side wall extensions. This solution helps store tall and/or loose items and prevents them from falling out of the tray.
The extensions can be easily installed into any existing Modula Slim tray and may be added at any time.
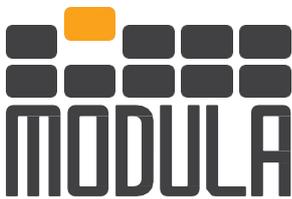
Price List: SLIM TRAY SIDE WALL EXTENSIONS

MODEL	HEIGHT TRAY SIDEWALL EXTENSION (mm)	CODE	
SLIM 1.3 1.300 X 425	50	1M007378	
	75	1M007242	
SLIM 1.9 1.900 X 425	50	1M007398	
	75	1M007252	
SLIM 2.5 2.500 X 425	50	1M007399	
	75	1M007244	

SUPPLY CONDITIONS

Below is the listed supply conditions:

- Terms of delivery: EX-WORKS.
- The packages are not included and they depend on the materials that must be shipped. Some materials that require special packaging are: Trays, LED bar, tray side wall extensions, Copilot beam.
- If you require one of our technicians a dedicated quote needs to be provided.
- Minimum order value is $ 125.00 taxes and shipping excluded.