High-End Automation Millenium V4 Trio



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By the use of two robotic arms the Millennium V4 TRIO can operate at high speeds, achieving a rate of 12 panels/ min or 6 panels/min with plastic interleaf insertion.

It is equipped, in the standard version, with 3 loading or unloading stations, two L-Racks and one horizontal

box with automatic exchange of 5 boxes, and has a non stop function, capable of changing from loading station n°1 to loading station n°2 or horizontal box without stopping production. This series of loaders is equipped with automatic adjustment of the suction gripper to avoid human intervention.

The Millennium V4 TRIO will measure all panels when entering the conveyor belt and the suction cup grippers will adjust to the panel size on the fly avoiding the need of manual intervention.

Moreover the unique alignment system installed will detect the panels located on the conveyor and will precisely pick up the panels without the need of any mechanical centering device. This will eliminate all friction between the conveyor rollers and the PCB (contact-free alignment system).

All Millenniums V4 TRIO can operate with or without plastic interleaves by the activation of the function.



	Length	Width	Thickness	Weight	Line speed range	
Max. Panel Size	615mm	615mm	5 mm	3 Kg	Panel / min	12
Min. Panel Size	530mm	450mm	25 µm	0,1 Kg	Max m / min	6
					Min m/min	0,2





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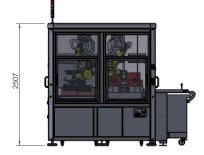
Technical features

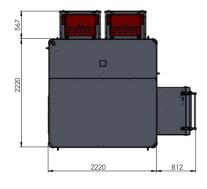
Main features	Unloader	Loader	
CCD Camera for Alignment	✓	N	
Double sheet detector	N	0	
Plastic Interleaf	✓	\checkmark	
6 Axis Robot Heavy Duty x 2 Units	✓	✓	
PLC (Control)	✓	~	
Touch Screen	✓	~	
Conveyor with Servo motor	✓	\checkmark	
Automatic Suction Cup Adjustment	0	0	
Venturi system	\checkmark	\checkmark	
Centering Device	✓	\checkmark	
ESD antistatic	0	0	
Arm with Extra Suction cup Vacuum power	0	0	
Decentering Device	N	\checkmark	
Automatic Exchange of Boxes (5 Boxes)	✓	\checkmark	
Automatic Panel Height Measurement on Loader	N	0	
Second Station for Loading or Unloading	✓	\checkmark	

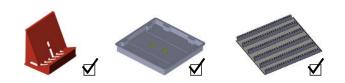
✓ = Included
 O = Opcional
 N = Not available

B Technosystem

Dimensions







Additionally the Millennium V4 Unloader is equiped with a station used to place plastic interleaves.

The main concept behind the Millenniums V4 DUAL is to Load and Unload constantly any horizontal line and any kind of panel with a thickness ranging from 25 micron up to 5mm and a weight of 7,5kg at a rate of 12 panels per minute.

It can be equipped with an automatic panel size recognition system, the L-rack can be loaded with different panel sizes and the system will automatically identify one by one the size of each panel, adjusting automatically the suction cups to the panel size.

Furthermore, the loader can be equipped with a touchless automatic centering or decentering device.

The standard configuration of a Millennium V4 TRIO includes 2 L-rack stations (for inner and outer layers) and a horizontal box (for flexible or extra thin inner layers) with automatic exchange of boxes.

