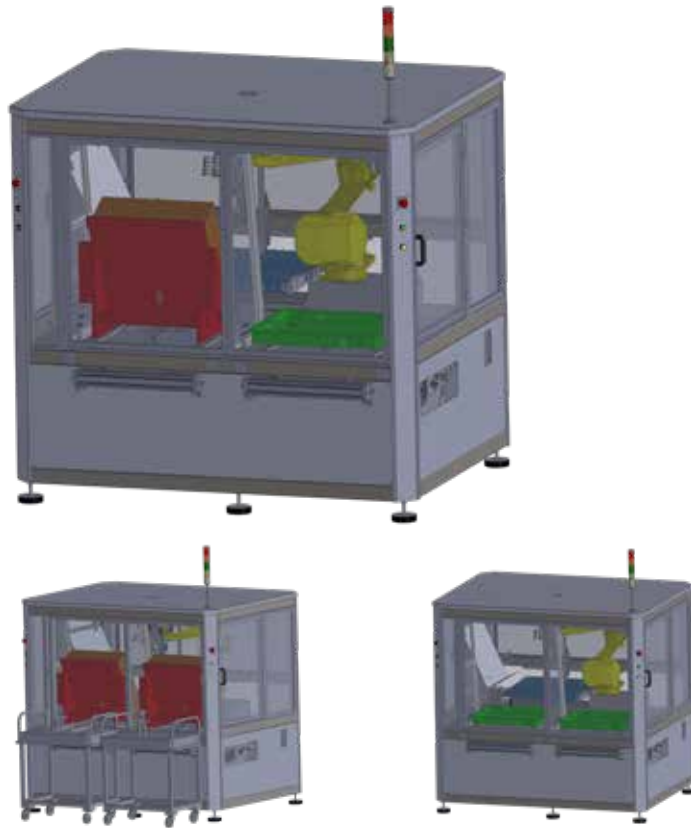


Millennium V4 DUAL



The Millennium V4 Dual Loader / Unloader line has been developed to be used in high end PCB shops where the PCBs are very sensitive to human manipulation. The Millenniums V4 DUAL are equipped with a heavy duty 6 axis robot arm capable of moving heavy panels at high speed with extremely high accuracy.

The Millennium V4 DUAL series is equipped, in the standard version, with 2 loading or unloading stations and has a nonstop function, capable of changing from loading station nº1 to loading station nº2 without halting production. This series of loaders is equipped with automatic adjustment of the suction gripper to avoid human intervention.

The Millennium V4 Single Unloader will measure all panels when entering the conveyor belt and the suction cup grippers will be adjusted to the panel size on the fly avoiding the need of manual intervention. Moreover the unique alignment system installed in the Millenniums V4 DUAL 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).

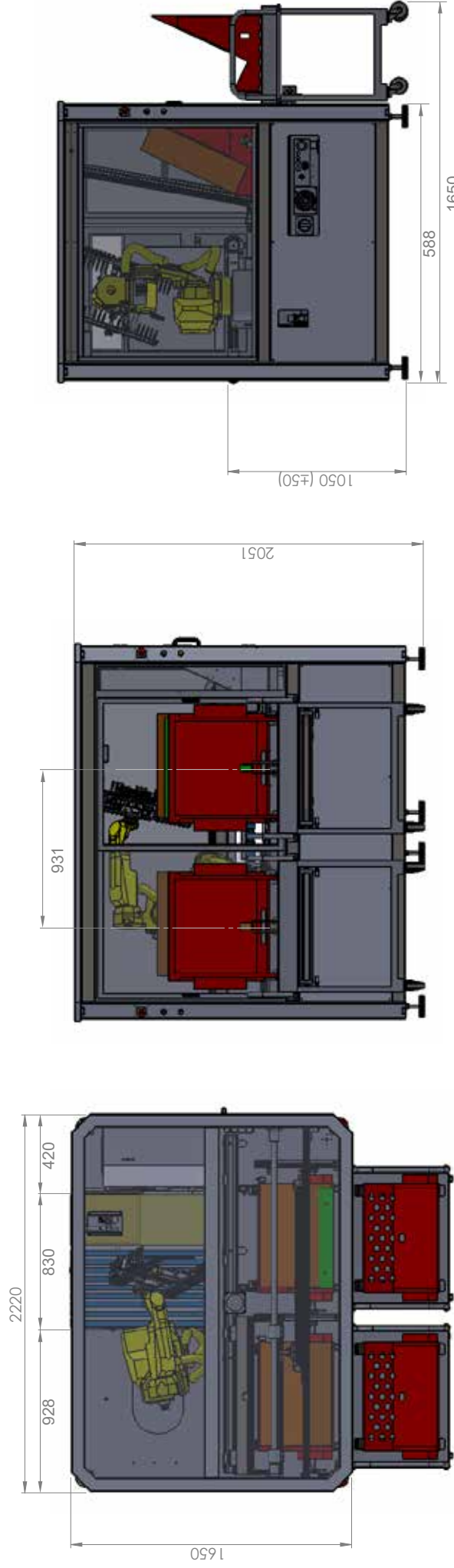
	Length	Width	Thickness	Weight	Line speed range	
Max. Panel Size	615mm	615mm	5 mm	7,5 Kg	Panel / min	8
Min. Panel Size	530mm	460mm	25 µm	0,2 Kg	Max m / min	5
					Min m/min	0,2

Youtube channel



Millennium V4 Dual

Main features	Unloader	Loader
CCD Camera for Alignment	N	✓
Double sheet detector	N	0
Plastic Interleaf	✓	✓
6 Axis Robot Heavy Duty	✓	✓
PLC (Control)	✓	✓
Touch Screen	✓	✓
Conveyor with Servo motor	✓	✓
Automatic Suction Cup Adjustment	0	0
Venturi system	✓	✓
Centering Device	✓	✓
ESD antistatic	0	0
Arm with Extra Suction cup Vacuum power	0	0
Decentering Device	N	0
Panel Height Automatic Identification	N	0



All Millenniums V4 DUAL can operate with or without plastic interleaf by the activation of the function. Additionally the Millennium Unloader is equipped 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 panels with a thickness ranging from 25 micron up to 5mm and a weight of 7,5kg at a rate of 8 panels per minute.

The Millennium V4 DUAL Loader 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. In addition the loader can be equipped with a touchless automatic centering or decentering device. **The Millennium V4 DUAL** can be delivered with L-rack (for Inner and outer layers), Horizontal Box (for Flexible or extra thin inner layers) or Slotted rack (solder mask panels). With these options **the Millennium V4 DUAL** can operate in any inner or outer layer line.

