

Millenium V4 Single

The Millennium V4 Single Loader/Unloader line is purposefully designed for high-end PCB shops where the delicate nature of PCBs necessitates utmost care during handling.

These units feature a robust 6-axis robot arm that can swiftly and accurately transport heavy panels.

The Millenium V4 Single Unloader is equipped with the capability to measure panels as they enter the unloader

conveyor and automatically adjust the suction cup gripper to match the panel's size, eliminating the need for manual intervention. This unique alignment system, integral to the Millennium V4 Single, can detect panels on the conveyor and pick them up with precise alignment, eliminating the need for mechanical centering devices. This technology effectively eliminates any friction between the conveyor rollers and the PCBs.

The system is versatile, capable of operating with or without plastic interleaf, providing flexibility to adapt to different requirements. Furthermore, the Millennium Unloader is furnished with a station for conveniently placing plastic interleaves, enhancing its adaptability and usability.



	Length	Width	Thickness	Weight	Line speed range	
Max. Panel	620mm	530mm	3,2 mm	7,5 Kg	Panel / min	8
Min. Panel	460mm	350mm	25 µm	0,2 Kg	Max m / min	5
					Min m/min	0,2

Youtube
Channel

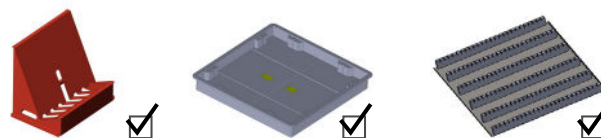


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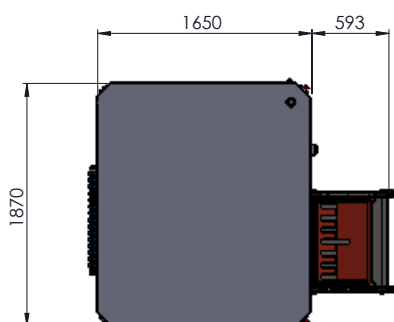
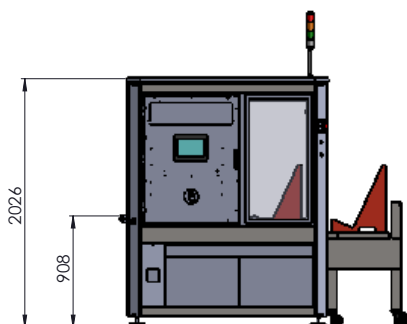
Technical features

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

✓ = Included
O = Optional
N = Not available



Dimensions



In addition, the system can be configured with an additional station that accommodates L racks, Horizontal Boxes, or Slotted racks. This versatility is ideal for PCB factories that work with a diverse range of base materials, requiring various supports such as L racks, Boxes, or Slotted racks.

All Millenium V4 Series units can be further customized with a wide array of options, including a copper thickness measuring system, core thickness measurement, QR code laser engraving, double sheet detectors, and automatic panel height adjustment, among other features.