B Benmayor® Technosystem

The Millenium V4 Dual line is equipped with a heavy-duty six-axis robot arm that can handle heavy panels at high speeds with exceptional precision.

This series of loaders features an automatic suction gripper adjustment system to eliminate the need for manual intervention.

The Millennium V4 Dual Unloader measures all panels as they enter the conveyor belt, and the suction cup grippers are adjusted on-the-fly to match the panel size, removing the necessity for manual adjustments. Furthermore, the unique alignment system installed in the Millennium V4 Dual detects panels on the conveyor and picks them up with precise alignment, eliminating friction between the conveyor rollers and the PCBs (contact-free alignment system).

The system can function with or without plastic interleaf by simply activating the relevant function. The Millennium V4 Dual Loader/Unloader line has been developed for use in high-end PCB shops where PCBs are extremely sensitive to manual handling.

In its standard configuration, it is equipped with two loading or unloading stations and has a non-stop feature, enabling seamless switching between loading/unloading from station No.1 and loading /unloading from station No.2 without interrupting production.

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

Youtube Channel

Technical features

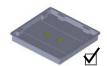| Main features	Unloader	Loader
CCD Camera for Alignment	N	✓
Double sheet detector	N	O
Plastic Interleaf	✓	✓
6 Axis Robot Heavy Duty	✓	✓
PLC (Control)	✓	✓
Touch Screen	✓	✓
Conveyor with Servo motor	✓	✓
Automatic Suction Cup Adjustment	O	O
Venturi system	✓	✓
Centering Device	✓	✓
ESD antistatic	O	O
Arm 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	✓	✓

✓ = Included
O = Opcional
N = Not available

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.

Dimensions

2220
928 830 420
1650

931
2051

1050 (±50)
588
1650