

Vacuum Degassing System

Encapsulation and Conformal Coating are processes implemented to enhance the reliability of electronic products, bubble defects can cause premature failure of the electronic circuits. Multiple factors contribute to the bubble defects in encapsulation/conformal coating processes, as such, eradicating the bubbles is a painfully challenging task. With years of expertise in the encapsulation and conformal coating, Youngpool Technology has designed and developed a solution to address the bubble defect the N-800A series Automatic Vacuum Degassing System.

The N-800A is an inline degassing system using vacuum principle that will effectively mitigate the bubble defects, it enables production of bubble-free electronic products that meet various industrial reliability standards.

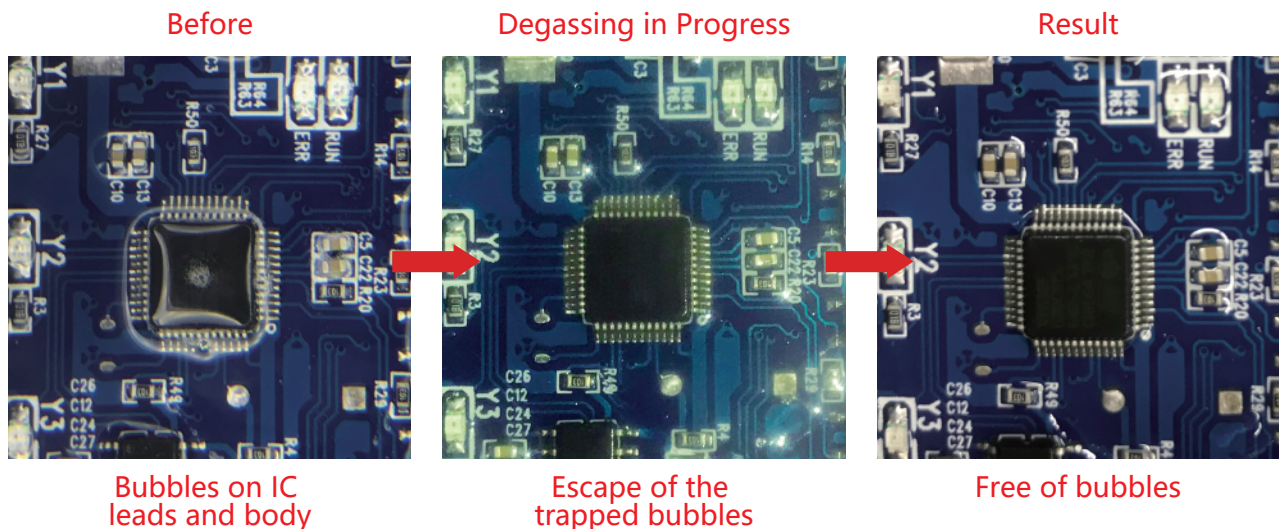


N-800A

Perfecting the Encapsulation and Conformal Coating Processes

- Inline configuration for easy integration into production line
- Single lane-single chamber configuration
- Degassing accomplished using vacuum and heat
- Adjustable vacuum profile
- Max. PCB size : 550mm x 500mm
- Easy to operate

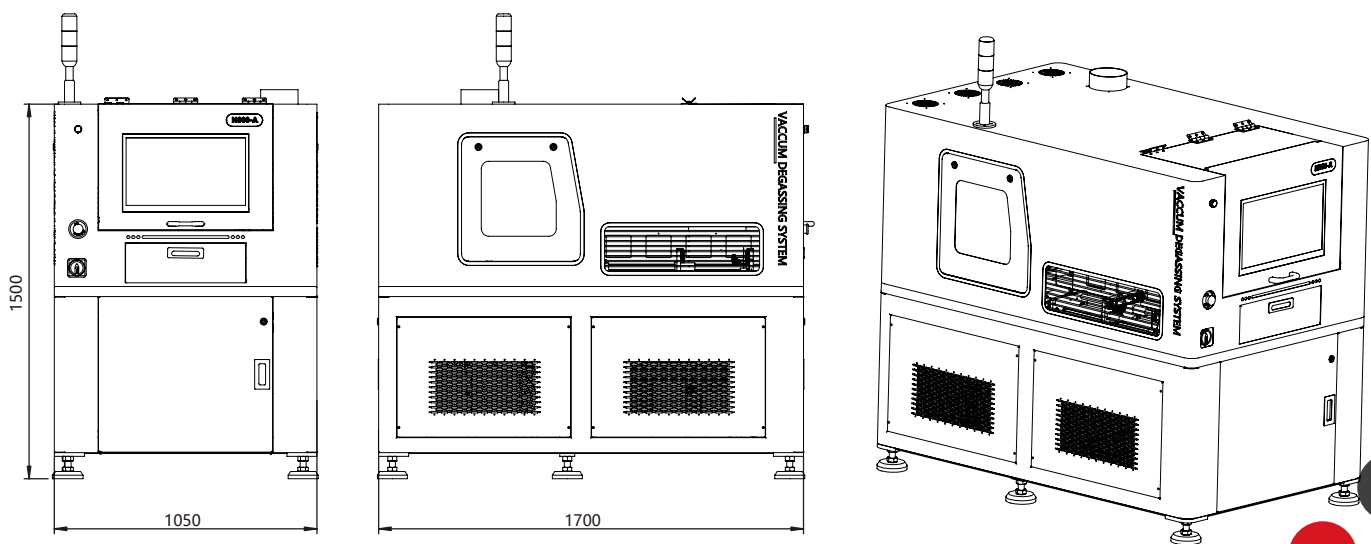
Illustrations of Degassing effect



PCB Size	Applicable PCB (mm)	Standard: 480 × 500, Option*: 550 × 500
	Top Clearance (mm)	Standard: 50, Option*: 100
	Bottom Clearance (mm)	Standard: 50, Option*: 100
	Max. PCB Weight (kg)	3.5
Conveyor Specifications	Conveyor Width (mm)	100-500
	Transfer Height (mm)	900±20
	Conveyor Type	Chain Conveyor
	Transfer Direction	Left to Right
	Transfer Method	Chain transfer
	Transfer Speed (mm/s)	Max. 500
	SMEMA	Standard
Function	Applicable Applications	Underfill, Conformal Coating and Potting process
	Viscosity of Material	9,000 cps or below
	Vacuum Pump Performance (m³/h)	Standard: 60, Option*: 179
	Max. Vacuum Level (Pa)	10
	Typical Degassing Cycle Time (Sec)	40-300
Dimensions and Control	Control and User Interface	Industrial Personal Computer
	Reference Dimensions (mm)	1050 (W) × 1700 (L) × 1500±20 (H)
	Weight (kg)	1100
Electrical Requirements	Voltage	Three Phase, 380V, 50Hz
	Power (kW)	4
Options and Accessories	CCD visual monitoring	Standard
	MES	Option
	Dry vacuum pump	Option

*: When selecting a PCB size of 550 × 500 mm, a top and bottom clearance of 100 mm must also be selected, along with a vacuum pump with a vacuum rate of 179 m³/h.

Dimensions



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