

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.

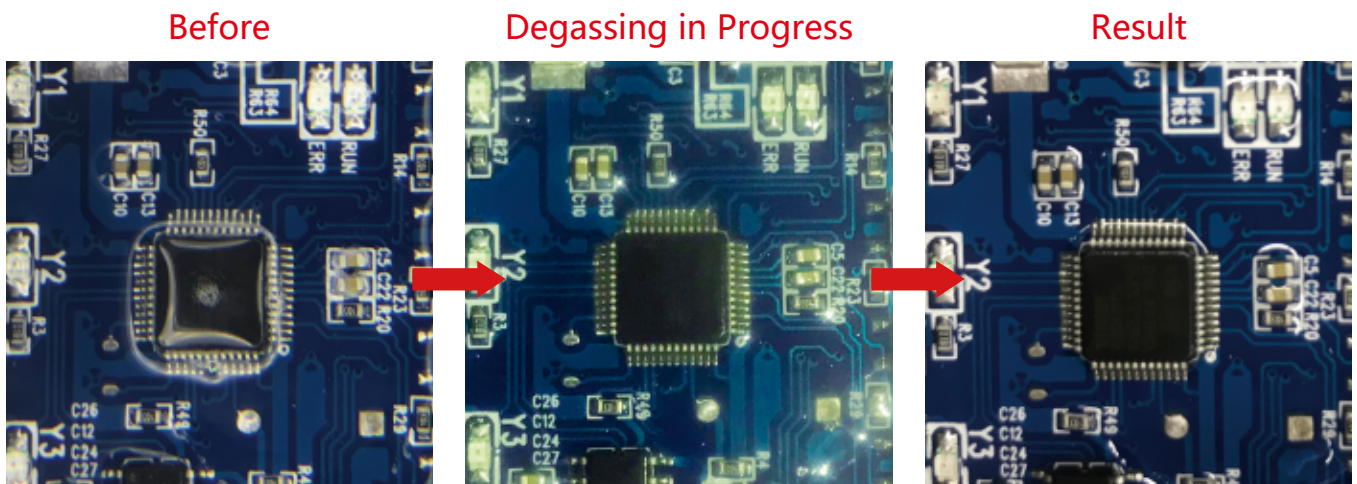
The N-800A is an inline degassing system using vacuum principle that will effectively mitigate the bubble defects, it enables production of bubble-free electronic products that meet various industrial reliability standards.



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 : 450mm x 450mm
- Easy to operate

Illustrations of Degassing effect



Before
Bubbles on leads and top surface of the package

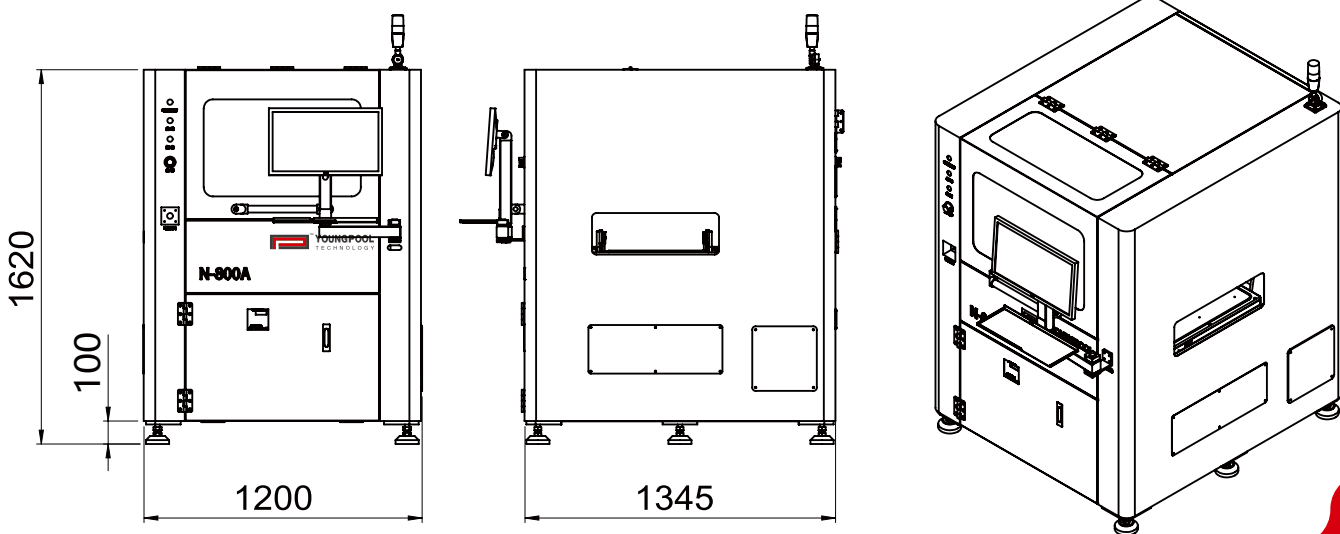
Degassing in Progress
Escape of the entrapped bubbles

Result
Free of bubbles

SPECIFICATIONS

PCB Size	Applicable PCB (mm)	450 × 450
	Top Clearance (mm)	50
	Bottom Clearance (mm)	50
	Max. PCB Weight (kg)	3.5
Conveyor Specifications	Conveyor Width (mm)	100-450
	Transfer Height (mm)	900±20
	Conveyor Type	Belt orbit
	Transfer Direction	Left to Right
	Transfer Method	Belt transmission
	Transfer Time (mm/s)	Max. 500
	SMEMA	Standard
Function	Applicable Applications	Encapsulation and Conformal Coating
	Viscosity of Material	200,000 cps or below
	Vacuum Pump Performance (m ³ /h)	60
	Max. Vacuum Level (Pa)	4
	Typical Degassing Cycle Time (Sec)	40-300
Dimensions and Control	Control and User Interface	Industrial Personal Computer
	Dimensions (mm)	1200 (W) ×1345 (L) ×1620±20 (H)
	Weight (kg)	1200
Electrical Requirements	Voltage	Three Phase, 380V, 50Hz
	Power (kW)	4
Options and Accessories	CCD visual monitoring	Standard Configuration
	MES	Available as Option
	Heat assisted degassing	Available as Option
	Underneath Return Conveyor	Available as Option

DIMENSIONS



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