

IGC-1000UV

Inline Conformal Coating System for UV Curing Materials



The GLUDITEC UV Inline Conformal Coating System is a cutting-edge solution tailored for UV Conformal Coating Materials, offering unparalleled efficiency and precision in the conformal coating process. This comprehensive system includes the ICD-600 Loading Unit, IGC-320 Conformal Coating Machine, ICD-350UV Manual UV Inspector, CUV-200 UV Curing Furnace, and the ICD-600UV Unloading and Inspecting Unit.

Designed to streamline and enhance the conformal coating process, the system ensures seamless operation from start to finish. The ICD-600 Loading Unit efficiently manages the initial loading of materials, while the IGC-320 Conformal Coating Machine provides precise application, guaranteeing consistent coating quality. The ICD-350UV Manual UV Inspector allows for meticulous inspection before the curing stage, ensuring every detail meets the highest standards.

The CUV-200 UV Curing Furnace is engineered for rapid and effective curing, enhancing productivity while maintaining the integrity of the coating. Finally, the ICD-600UV Unloading and Inspecting Unit completes the process, offering thorough inspection and unloading after curing.

With the GLUDITEC UV Inline Conformal Coating System, businesses can achieve increased productivity, superior coating results, and optimized operational efficiency, making it an indispensable asset for any production line focused on quality and precision.

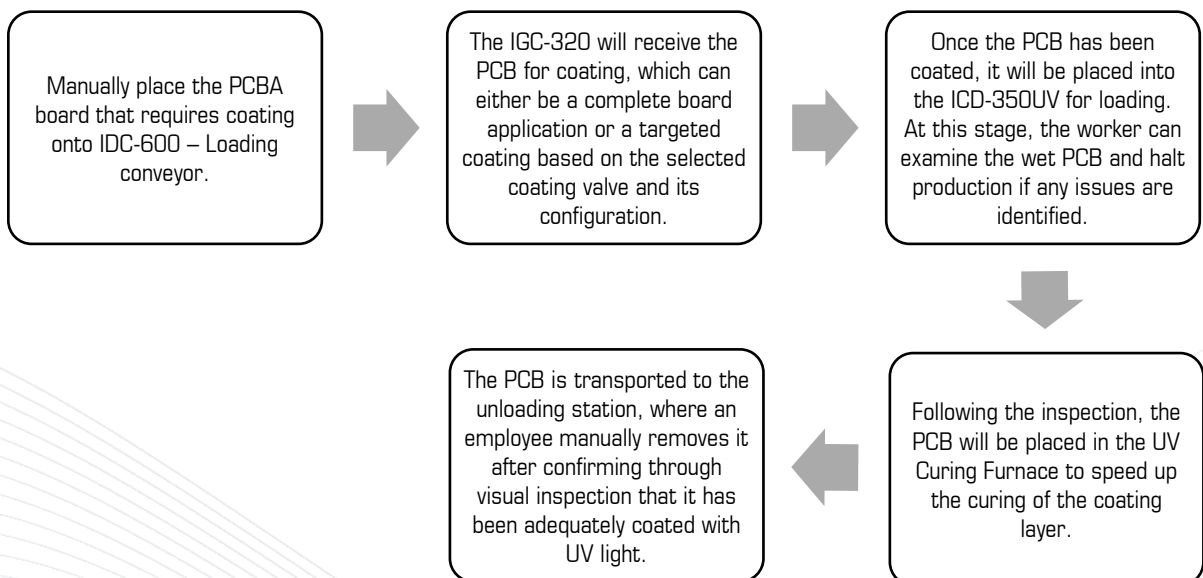
PRODUCTION LINE DESCRIPTION

- **Operator:** 2
- **Applicable Coating Materials:** Acrylic, polyurethane, silicone and nano coating which are cured by photo-curing.
- **Setup conditions:** 220V/380V power interface, gas source, and exhaust pipe;
- All devices on the whole line are connected through the **SMEMA interface**, and there will be no collision

IGC-1000UV

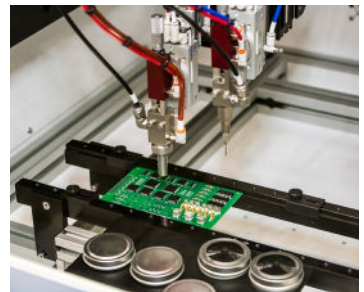
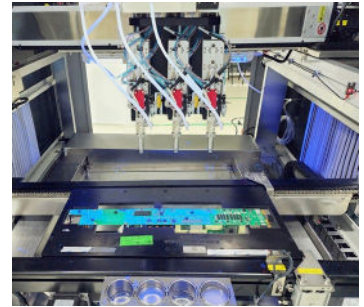
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PROCESS



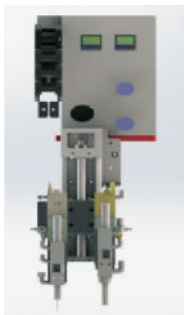
IGC-320

Conformal Coating System



The IGC-320 Conformal Coating Machine is equipped with two specialized valves, a film valve and a needle dispensing valve, designed to handle selective conformal coating with precision. This setup ensures that coating is applied only where needed, reducing material waste and improving efficiency. Key features of the IGC-320 include a high-precision motorized 3-axis gantry robot, a conveyor chain for seamless board handling, and a CCD camera vision system with auto-align functionality, ensuring accurate coating placement. The system is controlled by advanced software through an industrial computer, providing full control and flexibility.

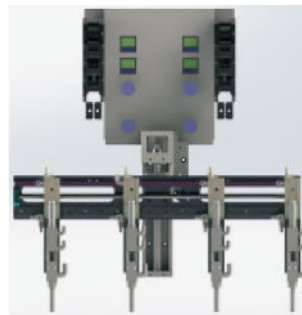
VALVE CONFIGURATION



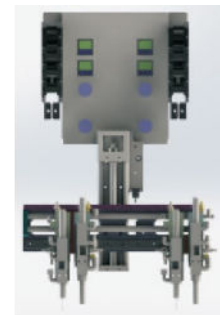
IGC-320



IGC-3202



IGC-3204



IGC-320D

Properties	IGC-320	IGC-3202	IGC-3204	IGC-320D
Valve Set	01 Dispensing Valve & 01 Micro Spraying Valve	02 Synchronization Spraying Valve with adjustable coating distance	04 Synchronization Spraying Valve with adjustable coating distance	02 Dispensing Valve & 02 Spraying Valve with group adjustable coating distance

IGC-320

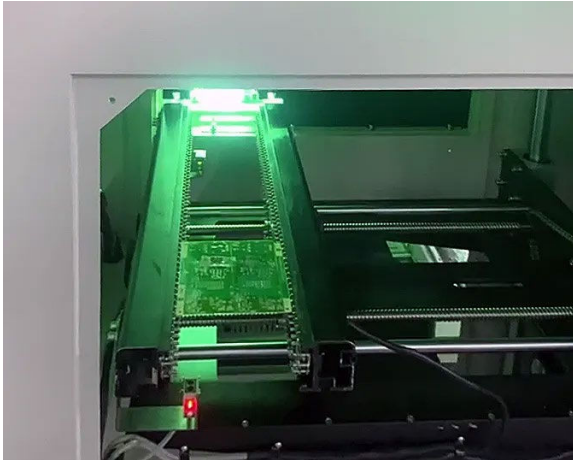
Conformal Coating System

SPECIFICATION

Category	Model	IGC-320NC
Board Handling	Working Area of Gantry Robot	X axis: 650 mm Y axis: 650 mm Z axis: 75 mm
	Min. Conveyor Width	50 mm
	Max. Conveyor Width	450 mm
	Max. Component Height	±90 mm
	Conveyor Direction	L to R (Standard), R to L (Optional)
	Max. Conveyor Load	5kg (Standard)
	Conveyor Speed	0~5m/min
	Conveyor Height	910±20 mm
	Conveyor Belt	Carbon Steel Chain
	Conveyor Width Adjustment	Motorized
Operation	Gantry System	XY Micro-step Motor Z Servo Motor
	XY Max. Speed	800mm/s
	XYZ Repeatability	±0.2mm
Facility	Footprint	L 1060 mm W 1300 mm H 1700 mm
	Weight	~ 550kg
	Min. Air Supply	0.4MPa
	Exhaust Requirement	15m ³ /min
	Input Power	AC 220V 50/60Hz
	Rated Power	1.8 kW
	Standard Compliance	SMEMA, IPC, CE
Interface	Communication Interface	SMEMA
	OS	Window OS
	Software	GLUDITEC Software
	Programming	File Transfer & On-board Programming

ICUV Series

Inline UV Curing System



GLUDITEC INLINE UV CURING SOLUTIONS

The GLUDITEC Inline UV Curing System offers versatile curing options with mercury, halide, or LED bulbs, tailored to suit different coating materials and their specific curing mechanisms. Designed for seamless integration with inline conformal coating systems, this customizable curing solution enhances production efficiency and flexibility. By providing the right curing light for each material, it ensures optimal coating performance, rapid curing times, and superior product reliability. Whether you need fast curing for high-volume production or precise curing for sensitive materials, GLUDITEC's system delivers consistent results while maximizing throughput and reducing downtime.

UV LIGHT SOURCE OPTIONS



Mercury Light Source

features 3KW or 6KW mercury lamps, with a lifespan of 1000 to 1500 hours.



Electrodeless Light Source

features 1.5KW or 3KW light source, with a lifespan of 6000 to 8000 hours.



LED Light Source

offers customizable wavelengths (365nm, 395nm, and 405nm) with a lifespan of over 20,000 hours

SPECIFICATIONS

Category	Model	ICUV Series
Board Handling	Min. Conveyor Width	50 mm
	Max. Conveyor Width	450 mm
	Max. Component Height	±100 mm
	Conveyor Direction	L to R (Standard), R to L (Optional)
	Max. Conveyor Load	5kg (Standard)
	Conveyor Speed	0~3500 mm/min
	Conveyor Height	910±20 mm
	Conveyor Belt	Carbon Steel Chain
	Conveyor Width Adjustment	Motorized

IDC Series

Board Handling Equipment



IDC-600

A high-capacity inline PCB buffer conveyor with a durable pin chain conveyor, ideal for handling heavy pallets and complex PCBs in assembly, coating, and dispensing processes.



IDC-600

A compact version with an ESD clear plastic cover, designed for inspecting wet boards in space-limited production lines.



IDC-600

Features a UV inspecting light for precise inspection of cured boards, ensuring superior quality control in conformal coating.

SPECIFICATIONS

Category	Model	IDC-600	IDC-350UV	IDC-600UV
Board Handling	Min. Conveyor Width	50 mm		
	Max. Conveyor Width	450 mm		
	Max. Component Height	±100 mm		
	Conveyor Direction	L to R (Standard), R to L (Optional)		
	Max. Conveyor Load	5kg (Standard)		
	Conveyor Speed	0~5m/min		
	Conveyor Height	910±20 mm		
	Conveyor Belt	Carbon Steel Chain		
	Conveyor Width Adjustment	Manual		
Facility	Footprint	L 900 mm W 900 mm H 970 mm	L 900 mm W 900 mm H 1310 mm	L 900 mm W 900 mm H 1280 mm
	Weight		120kg	115kg
	Input Power	AC 220V 50Hz		
	Rated Power	1.8 kW	0.2kW	0.2kW
Interface	Communication Protocol	SMEMA		
	Controller	Micro Control Unit & Buttons		