

## SER-300-30UV

UV Adhesive Dispensing System with UV Curing Oven

The SER-300-30UV is a specialized dispensing system tailored for UV adhesives. It features the SER Series Robot (specifically the SER-200), a GC-824 Controller for direct dispensing from 30ml and 50ml syringes, and the FUV UV Oven Curing System. The UV curing mechanism presents both benefits and drawbacks. While it offers an extended open time and the ability to cure on demand, it also requires additional investment in a UV curing setup and adds another step to the assembly process. However, with its cost-effective design and compact structure, our SER-300-30UV effectively addresses the challenges of UV adhesives in assembly while maintaining excellent bonding strength and curing capabilities.



### FEATURES

- Can handle different package size of silicone adhesive from 85g to 330g.
- Dispensing area from 200x200x100 mm to 600x500x100 mm
- Dot, Lines, Arc etc. and 3D dispensing path is available.
- 100 programs, 4000 points per program.
- A hand-held Teach Pendant is provided for simple and intuitive programming functions.
- Windows SRE software is available for CAD file input (optional).
- Different UV Curing Oven Options
- Different UV Energy LED/ Mercury Options

### OPTIONS



Dual Table



Multiple Heads



UV Curing Drawer

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### DESKTOP ROBOT MAIN SPECIFICATIONS

Model	SER-200	SER-300	SER-400	SER-500
Working range (X/ Y/ Z) mm	200 x 200 x 50	300 x 300 x 100	400 x 400 x 100	500 x 500 x 100
Max. load Y/ Z Axis	5kg/ 3kg	11kg/ 6kg		
Speed X & Y/ Z (mm/sec)	500/350	800/350		
Repetitive Positioning Accuracy	±0.02mm/axis			
Program Capacity	Min. 100 group, 4000 points/group			
Data Storage Type	CF Card			
Byte	32 bit			
Program Display	LCD			
Motor System	Micro stepping motor			
Mode of transmission	Synchronous belt	X/Y Axis synchronous belt, Z Axis precision ball screw		
Interpolation Function	3 axis			
Teaching Method	Teach Pendant			
I/O Signals Port	8 Inputs/ 8 Outputs			
External Control Interface	RS232			
Power Supply	AC100 - 230V 300W			
Working Temperature	10 ~ 40°C			
Working Relative Humidity	20 ~ 90% no condensation			
Dimension (L x W x H) mm	385 x 380 x 500	485 x 505 x 610	585 x 610 x 610	785 x 700 x 610
Total weight	23kg	34kg	41kg	56kg

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### LIQUID CONTROL

#### GC-824 - General Pneumatic Fluid Dispenser

The GC-824 dispensing controller, also referred to as an autonomous fluid dispenser, is commonly employed for various fluids, particularly adhesives of varying viscosities. It excels in executing precise dispensing tasks like dotting, marking, and filling. Its applications span a wide range of industries including electronics, optics, packaging, automobiles, medical, jewelry, toys, and more.

- Dot, underline and fill
- Adjust the vacuum suction device to effectively control the dripping of thin liquids
- With a backlight LCD display, dispensing parameters can be displayed clearly at a glance
- Compact structure and small size;



Properties	Value
Dimension	L170 x W230 x H75mm
Weight	2.5kg
Air input	0.5 ~ 0.9 bar
Air output	0.01 ~ 0.8 bar
Repeat Tolerance	±0.05%
Dispense time	0.001 ~ 99.99 sec +/-0.1%
Voltage	110V/220V±10% 50Hz
Power Consumption	< 15W

PN	Volume	Outer diameter	Inner diameter	length	Color
aGSYA-03	3cc	11.4	9.5	73.6	Black Amber Brown Clear
aGSYA-05	5cc	14.5	12.6	69.3	
aGSYA-10	10cc	18.4	15.6	91	
aGSYA-30	30cc	25.4	22.6	118.5	
aGSYA-50	50cc	25.4	22.6	175.2	

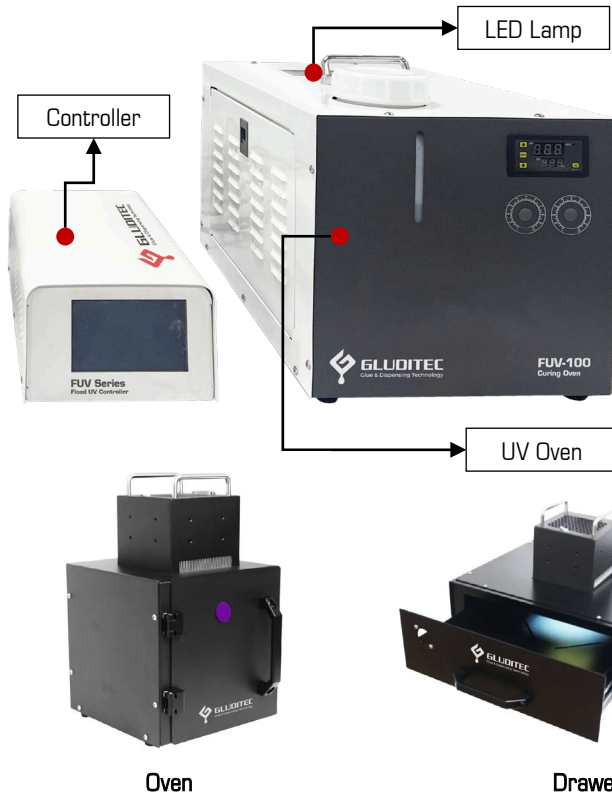


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### FLOOD UV CURING SYSTEM

UV Curing Oven & Controller



GLUDITEC light-curing system uses low-to high-intensity LED/UV/Visible light for the fast curing of light-curable adhesives, coatings, and UV inks. A modular UV curing flood lamp consists of a power supply, reflector housing, and customizable LED. A custom light-curing system can be built by our system design options: Stand (for integrated into production line), Drawer, Oven and Box.

Consistent line speed, lamp height, and intensity together provide a consistent UV curing process. Safety designs help to utilizing the highest-intensity for better performance and shorter curing time.



Conveyor

### LED Specifications

Product NO	LED Beam Size(mm)	Head Size(mm)	UV Intensity (mw/cm <sup>2</sup> )	Working Distance (mm)	Wavelength	Cooling
FUV505	50×5	L70W35H90	50-10000	10~20	365nm 385nm 395nm 405nm 470nm	Fan
FUV510	120×5	L70W35H88				
FUV1205	120×10	L150W54H120				
FUV2005	200×5					
FUV2010	200×10	L230W35H102				
FUV4005	400×5	L230W35H100				
FUV4010	400×10	L404W35H102				
FUV130010	1300×10	L404W35H100				
FUV0202	20×20	L1400W65H120				