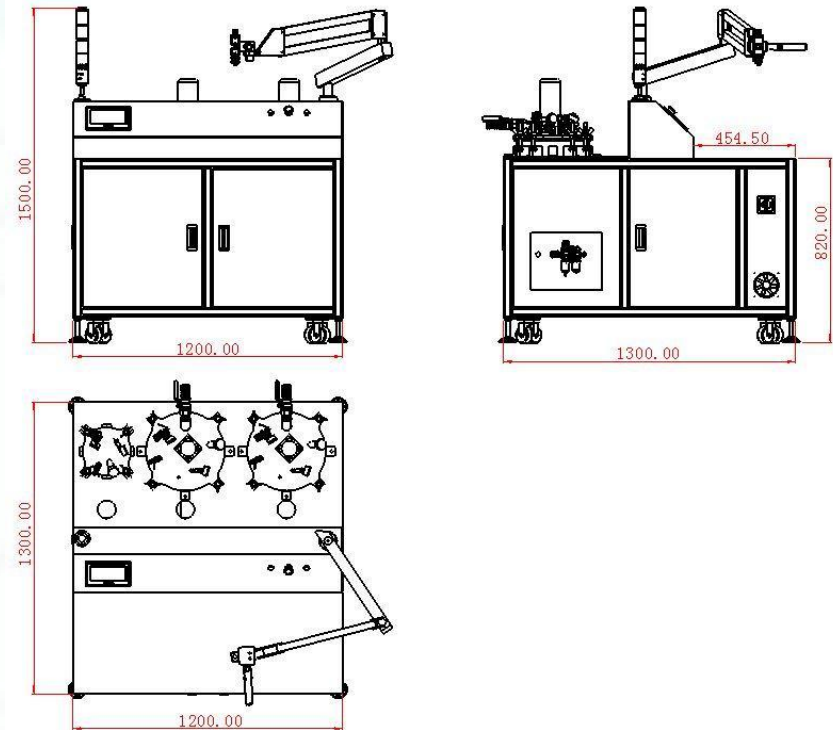


## S-G990 Semi-Automatic Potting Machine

### Product Introduction



Machine image



Machine dimensions

## Applicable Adhesives

1. Adhesive viscosity: within 50,000 cps.
2. Suitable for two-component adhesives such as epoxy resin, polyurethane, electronic silicone, electronic potting compound, and liquid silicone.
3. Filled particle size should be above 200  $\mu\text{m}$ , and the filler content should be less than 50% of the total adhesive volume.
4. Adjustable mixing ratios: 1:1, 1:2, 1:3, 1:4, 1:5, 1:10.

## Glue Supply Capacity

1. Metering and mixing ratio accuracy:  $\pm 3\%$ .
2. Dispensing accuracy:  $\pm 3\%$ .
3. Dispensing speed: minimum 1 g/sec, maximum 20 g/sec. The output can be adjusted according to adhesive viscosity.

## Product Functions

1. Adhesive volume, dispensing thickness, dispensing speed, dispensing time, and pause time can all be set by parameters. The adhesive output is stable, with no dripping or leakage.
2. The machine supports on-demand mixing and dispensing, allowing A/B materials to be mixed and potted simultaneously, maximizing adhesive savings.
3. Dual-tank design: Part A and Part B are stored separately to prevent curing during long-term storage.
4. Mixing ratio is adjustable from 1:1 to 10:1 by selecting different metering pumps. Static or dynamic mixing is available, ensuring uniform and thorough mixing.
5. Unique control system, unaffected by air pressure fluctuations, preventing uneven dispensing, stringing, bubbles, and other issues.

6. Multiple potting modes are available and can be freely switched. The machine can dispense Part A only, Part B only, or A/B mixed adhesive by fixed quantity. Manual dispensing of Part A, Part B, or A/B adhesive is also supported. For special requirements, multi-stage quantitative dispensing mode can be used, supporting up to five dispensing stages, with independent settings for dispensing volume and dispensing speed for each stage.
7. Equipped with automatic feeding and suction functions to reduce manual feeding time and improve efficiency.
8. The storage tanks are equipped with liquid-level sensors. The machine provides automatic alarms for material shortage or full tank status, and automatically stops for protection when material is insufficient.
9. Equipped with adhesive stirring function. Heating can be optionally configured, and a vacuum degassing function is reserved, making the machine suitable for different potting processes.
10. Equipped with production counting, single-piece timing, operation monitoring, and alarm functions.

11. AB pump pulse coefficient setting guide function, convenient for adapting to different adhesives from different manufacturers.
12. Reserved functions for pump blockage detection and flow monitoring. These can be optionally installed for customers who require high mixing ratio accuracy and low error.
13. Intelligent automatic cleaning function with multiple cleaning modes to adapt to different working conditions.
14. Anti-curing program prevents adhesive from hardening and blocking pipes or valves when the machine pauses potting operation.
15. Cleaning solvent recycling system improves solvent utilization and effectively reduces waste.
16. Unique adhesive anti-curing mode effectively prevents curing inside the mixing head caused by operator negligence.

## Equipment Composition

System / Structure	Component Name	Quantity	Remarks
Main structure	Machine frame	1 set	Square tube profile + sheet metal
	Swing arm bracket	1 set	Handheld movable operating structure
	Static / dynamic mixing valve	1 set	OLKS
	Mixing tubes	10 sets	OLKS
Software system	Control system	1 sets	PLC
Motor system	Stepper motors	2 sets	Part A metering pump motor + Part B metering pump motor
Material storage system	Pressure tanks	3 sets	Part A pressure tank, Part B pressure tank, cleaning pressure tank
Metering pump	Gear pump / screw pump	2 sets	Part A metering pump, Part B metering pump
Heating system	Optional	-	Optional configuration

## Basic Specifications

Main Technical Parameters	Specification	Main Technical Parameters	Specification
Motion range	Movable radius, usable radius range: 1000 mm	Total power	Calculated according to functional configuration
Machine size	L 1300 mm × W 1200 mm × H 1500 mm	Working air pressure	0.5–0.7 MPa
Machine weight	Approx. 200 kg	Working environment	Temperature: 0–40°C; Humidity: 20–91%
Operation mode	Automatic mixing ratio control, handheld jog button / foot switch movable potting	Motion trajectory	Linear interpolation
Power supply	AC220V / 50Hz	Dispensing speed	1 g/sec – 20 g/sec

## Additional Technical Parameters

Item	Specification	Item	Specification
Adhesive viscosity range	MAX ≤ 5000 cps	Tank liquid level display	Full material and material shortage alarm functions
Mixing ratio accuracy	±3%	Vacuum function	Automatic feeding and vacuum degassing
Mixing method	Static mixing / dynamic mixing optional	Automatic feeding function	No need to open the cover; manual switch as standard. Automatic switch optional; feeding stops automatically when full
Ratio control system	Screw pump / gear pump / plunger pump	Automatic cleaning function	Intelligent control with multiple adjustable modes
Storage tank specification	Stainless steel pressure tank: Part A 30 L, Part B 30 L, cleaning tank 5 L	Tank liquid level alarm	Full material and material shortage alarm functions
Heating function	Optional according to adhesive data	Anti-settling function	Timed electric stirring
Feeding hose	High-pressure dispensing hose, inner Teflon with outer stainless steel / Teflon insulated hose with heating belt		

## Best After-sales service

- **7x24 Worldwide Support**
- **Free Installation/ Training**
- **1 day lead-time (spare parts)**
- **1 Month customize solution**



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