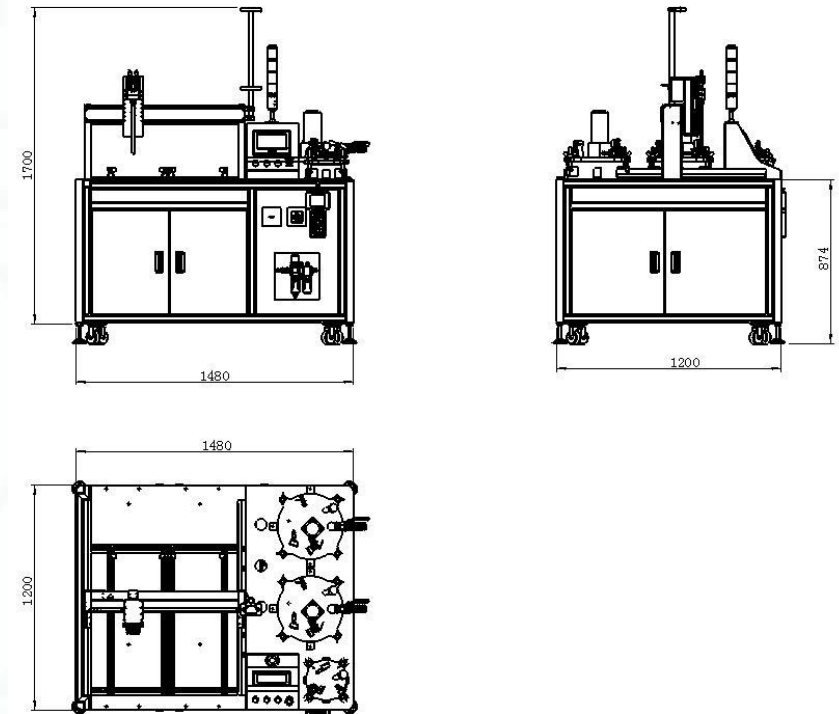


S-G4600 Fully Automatic Potting Machine

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, liquid silicone, etc.
3. The particle size of fillers should be above 200 μm , and the filler ratio 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.
4. The dispensing volume can be adjusted according to adhesive viscosity.

Product Functions

1. Supports dispensing modes including dots, lines, surfaces, arcs, circles, irregular curves, continuous interpolation, and three-axis linkage, making it suitable for potting irregular workpieces.
2. Large-capacity hard disk storage with unlimited program storage. Programs do not need to be re-edited. The software supports area array, translation, rotation calculation, and other functions.
3. Glue volume, dispensing thickness, coating speed, dispensing time, and glue stop time can all be parameterized. The glue output is stable with no dripping or leakage.
4. Integrates three functions: adhesive mixing, potting, and trajectory-based potting, enabling fully automatic operation.
5. Mixing is performed on demand while dispensing, maximizing adhesive savings.
6. Dual-tank design: A glue and B glue are stored separately to prevent curing during long-term storage.

7. Mixing ratio is adjustable from 1:1 to 10:1 by selecting different metering pumps. Static or dynamic mixing can be used to ensure uniform and complete mixing.
8. Equipped with a proprietary control system that is not affected by air pressure, preventing uneven glue output, stringing, bubbles, and other defects.
9. Multiple potting modes can be freely selected and switched.
 - It can dispense A glue only, B glue only, or AB glue quantitatively.
 - It can also manually dispense A glue, B glue, or AB glue.
 - For special requirements, a multi-stage quantitative dispensing mode can be used, with up to five dispensing stages. The glue output and dispensing speed of each stage can be set separately.
10. Equipped with automatic material loading and suction functions to reduce manual loading time and improve work efficiency.
11. The storage tanks are equipped with liquid level sensors. The system provides automatic alarms for material shortage or full material level, and automatically stops the machine for protection when material is insufficient.
12. Equipped with adhesive stirring. Heating can be optionally configured, and a vacuum degassing function is reserved, making it suitable for different potting processes.

13. Equipped with output counting, single-piece timing, operation monitoring, and alarm functions.
14. AB pump pulse coefficient setting wizard makes it easy to adapt to different types and brands of adhesives.
15. Reserved functions for pump blockage detection and flow monitoring. These can be optionally installed for customers requiring high adhesive ratio accuracy and low error.
16. Intelligent automatic cleaning function with multiple cleaning modes, suitable for different operating environments.
17. Anti-curing program prevents adhesive from hardening and blocking pipelines and valve bodies when potting is paused.
18. Cleaning solvent recycling system improves solvent utilization and effectively reduces waste.
19. Proprietary adhesive anti-curing mode effectively prevents curing of 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
	Belt modules	3 sets	Motion structure
	Static / dynamic mixing system	1 sets	OLKS
	Mixing tubes	10 sets	OLKS
Software system	Motion control system	1 sets	Motion control card + PLC
Motor system	Stepper motors	5 sets	X, Y, Z axes + A glue metering pump motor + B glue metering pump
Material storage system	Pressure tanks	3 sets	A glue pressure tank, B glue pressure tank, cleaning pressure tank
Metering pump	Gear pump / screw	2 sets	A glue metering pump, B glue metering pump
Heating system	Optional	-	Optional configuration

Basic Specifications

Main Technical Parameters	Specification	Main Technical Parameters	Specification
X-axis working range	600 mm	Repeat positioning accuracy	±0.05 mm
Y-axis working range	800 mm	Maximum speed	300 mm/sec
Z-axis working range	100 mm	Power supply	AC220V / 50Hz
Machine length	1480 mm	Total power	Calculated according to functional configuration
Machine width	1200 mm	Working air pressure	0.5–0.7 MPa
Machine height	1700 mm	Working environment	Temperature: 0–40°C; Humidity: 20–91%
Machine weight	Approx. 400 kg	Motion trajectory	Linear interpolation
Operation mode	Automatic mixing ratio, automatic potting	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: A material 30 L, B material 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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