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**NAME: GWT-05M automatic glue filling machine**



## **Introduction:**

Glue filling machine, also known as automatic glue mixer and AB glue dispenser, is an automated machine specially designed for filling AB glue on the surface or inside of products to achieve sealing, fixing, waterproofing and other functions. Glue filling machine equipment is mainly used in the fluid control industry, and the glue is used to fill products and workpieces. The working principle of the glue filling machine is mainly to use compressed air to control the on-off switch of the glue dispensing valve, and use a pump to transport glue from the glue storage barrel to the switch mixing part.

The automatic glue filling machine is to install a manipulator for automatic filling after completing the automatic proportioning and automatic mixing of AB glue. It can

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automatically fill the products with glue, and the glue and curing agent can be automatically proportioned, mixed, and dispensed. The proportioning and metering of A/B glue all use high-precision metering pumps and motors to achieve accurate proportioning and glue output, which is not affected by air pressure. The machine automatically pours quantitatively, and the amount of glue is controlled by a microcomputer. The amount of glue is uniform and consistent, which solves the problem of inconsistent glue amount for each product caused by manual gluing and affects product quality, and improves the customer's original manual production process. It saves glue, replaces labor, reduces defective products, improves product quality, increases output, reduces production costs, and enhances corporate competitiveness.

### **Technical parameters:**

1. Product name: Automatic glue filling machine (optional double head)
  2. Model/Specification:GWT-05M
  3. Working range: 500X×500Y×100Zmm (stroke size optional)
  4. Maximum speed: 500mm/sec
  5. Ratio accuracy: ±1% (based on 10 grams)
  6. Glue output accuracy: ±1% (based on 10 grams)
  7. Glue ratio: 100:20 adjustable.
  8. Glue dispensing speed: 2g-10g/s adjustable.
  9. Metering method: servo motor + high-precision metering pump (gear/screw)
  10. Barrel material: AB stainless steel barrel
  11. Barrel stirring: A barrel anti-sedimentation stirring
  12. Barrel capacity: A 30 liters B 8 liters (barrel size can be customized according to requirements)
  13. Rubber hose: Teflon tube
  14. Mixing method: dynamic/static
  15. Programming system: teaching box
  16. Transmission method: motor + module/guide rail
  17. Start method: handle start/start button/display start
- II.

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1. The clear LCD display can automatically display various processing data.
2. It has the functions of point, line, surface, arc, circle, irregular curve continuous interpolation, etc., which can adapt to the glue filling of any irregular objects on the plane.
3. After completing the program editing with the teaching box, import the data into the machine memory to work independently without the teaching box, and the operation is simple and intuitive.
4. The glue quantity, glue filling speed, glue filling time and glue stop time can all be set by parameters, the glue output is stable, and there is no glue dripping;
5. The three functions of glue mixing, glue filling and track filling are integrated and fully automatic.
6. Mix according to demand, and mix and fill at the same time to save glue to the maximum extent.
7. Glue dispensing time: can be controlled according to the actual amount of the product.
8. Power supply for the equipment: AC220V, 50Hz.
9. Working air source: 0.4~0.7MPa.

**Machine Configuration:**

<b>Machine configuration</b>	<b>Detailed description</b>
<b>Control system</b>	PLC + touch screen
<b>Software system</b>	Self-developed
<b>Three-axis control system</b>	Full-time/Hengkong
<b>Three-axis drive motor</b>	Yankong
<b>Three-axis module</b>	Fuyin/Xiangjun
<b>Metering drive motor</b>	Jiemeikang servo motor
<b>A/B metering pump body</b>	Customized high-precision screw/gear metering pump
<b>A/B Rubber hose</b>	Anti-corrosion Teflon high-pressure pipe
<b>A/B barrel</b>	A: 30L / B: 8L

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<b>One-button cleaning</b>	2L stainless steel (standard)
<b>AB mixing valve</b>	Independent research and development
<b>Liquid level monitoring</b>	Ensipu float type
<b>Stirring motor</b>	Chuanming
<b>Switch power supply</b>	Taiwan Mingwei LRS-200
<b>Air switch</b>	Delixi
<b>Relay</b>	Helijia
<b>Solid-state relay</b>	Helijia
<b>Three-color light</b>	Meiyijia
<b>Equipment keel</b>	4040 -3030 profile
<b>Equipment sheet metal</b>	Environmentally friendly stainless steel 1mm
<b>Equipment power</b>	2500W
<b>Working power supply</b>	AC220V/110V 50-60HZ
<b>Working air source</b>	0.5-0.7 Mpa
<b>Machine weight</b>	About 260kg

**Function parameters:**

<b>NO.</b>	<b>Component name</b>	<b>Configuration</b>	<b>Function</b>
<b>Three-axis part</b>			
<b>1</b>	XYZ	Belt module	X500*Y500*Z100
<b>2</b>	Origin photoelectric	Omron	Relative coordinate positioning is referred to as the origi
<b>3</b>	Drive motor	57-76 Research and Control	Drives the XYZ three-axis manipulator to work
<b>4</b>	Three-axis controller	Full-time motion controller	Can achieve point-line-circle three-axis linkage

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5	Z axis	Power-off brake	Prevents the Z axis from falling due to power failure
<b>Glue filling part</b>			
1	Control system	PLC + LCD display	Glue filling ratio, glue quantity and other settings
2	Metering pump	High-precision screw	AB ratio control accuracy $\pm 1\%$
3	Metering motor	Servo motor	Drive metering pump to accurately discharge glue
4	Storage barrel	A30L B8L	304 stainless steel
5	Glue dispensing valve	AB anti-leakage and back-sucking valve	Automatic mixing of glue discharge, automatic back suction function
6	Mixing	Two-component	Dynamic/static mixing
7	Barrel liquid level	AB high and low glue alarm Teflon tube	Three-color light prompt, content displayed on the touch screen
8	Glue delivery hose	Teflon tube	A glue hose 3 branches. B glue 3 branches. Tube length 4.5M
9	Anti-solid function	Automatic glue discharge at intervals	Automatic glue dispensing when stopping, can be set on the touch screen
10	Glue dispensing	Automatic/manual	Glue discharge accuracy $\pm 1\%$ , glue discharge volume 2-10g/s
11	One-button cleaning	Cleaning bucket 2L	Gas and liquid can be switched

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- 1) The equipment has a reasonable layout, a solid structure, beautiful appearance, stable and reliable performance. (The exterior is made of profiles + stainless steel sheet metal)
- 2) The equipment is simple and convenient to operate, and the electrical safety, personal safety and health meet the relevant national standards and requirements. The start-up method uses a start button and a foot switch.
- 3) For easy cleaning, the equipment is easy to disassemble and equipped with facilities for automatic cleaning. It has an anti-curing function to effectively prevent the glue from curing in the mixing tube.
- 4) The equipment comes with software and an LCD touch screen.
- 5) The glue barrel of the equipment is made of stainless steel. Both A and B glue barrels have an automatic alarm function for lack of material.
- 6) The equipment uses a high-speed metering pump for delivery and static mixing and stirring for precise proportioning and mixing.

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