YOSON
AUTOMATION

DISPENSING EQUIPMENT & AUTOMATION SOLUTIONS

Product Selection Guide

Precision Dispensing. Practical Automation.

About YOSON Automation

ABOUT YOSON AUTOMATION

01 YOSON Automation is a dispensing-equipment supplier and customized-automation solution provider based in Dongguan, China. We focus on automatic dispensing equipment, fluid feeding systems, valves, controllers and related accessories.

02 Working with experienced manufacturing partners, we support equipment selection, solution configuration, sample testing and customization based on the product, adhesive, dispensing path, cycle time and output target.

03 Our solutions handle silicone, sealants, grease, epoxy, UV adhesive, PUR and other industrial fluids for electronics, automotive components, lighting, appliances, hardware and general manufacturing.

How to Select the Right Dispensing Solution

HOW TO SELECT A DISPENSING SOLUTION

1	**Part**	Size, positioning and quantity per cycle
2	**Fluid**	Name, package, viscosity and cure method
3	**Path**	Dot, line, circle, surface, potting or coating
4	**Process**	Shot size, accuracy, cycle time and handling
5	**Validation**	Confirm configuration through sample and fluid testing

Platforms, Multi-Station & Multi-Head

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YS-D331

3-Axis Single-Platform Dispenser

- 3-axis single-head syringe structure
- Dot, line and arc trajectories
- High-precision stepper control
- Travel/accuracy confirmed by final model



YS-S532

300 ml Dual-Station Silicone Dispenser

- Feed: 300 ml silicone cartridge
- Travel: 500×300×100 mm
- Accuracy: ±0.02–0.05 mm
- Air: 0.3–0.8 MPa / load: 5 kg



YS-S2.6-2H

2.6 L Dual-Head Silicone Dispenser

- 2.6 L bulk silicone feeding
- Dual dispensing heads
- For silicone, sealant and similar fluids
- Travel/valves confirmed by process



YS-D331-4H

Multi-Head Synchronous Dispenser

- 4-head system with separate fluid paths
- Multiple parts processed together
- Tank count configured by process
- Travel confirmed per project

Rotary, Gantry & Enclosed Systems

Rotary, Gantry & Enclosed Systems



YS-R4

4-Axis Rotary Silicone Dispenser

- 360° rotary R-axis
- For side/circumference paths
- For silicone, sealant and similar fluids
- Travel/feed confirmed by process



YS-R5V

5-Axis Vision Rotary Dispenser

- XYZ: 300×300×100 mm
- A/B axes: 360° / 360°
- Accuracy: ±0.01–0.02 mm
- Max speed: X800/Y600/Z500 mm/s



YS-GANTRY

Gantry Dispensing System

- Working range: customized per project
- Servo drive
- Dual rail + timing belt
- Air supply: 0.3-0.8 MPa



YS-COVER

Enclosed Dispensing Workstation

- Working range: customized per project
- Enclosed safety protection
- Fluid system selected by adhesive
- AC 220 V / 0.3-0.8 MPa

1K Silicone & High-Viscosity Feeding

1K Silicone & High-Viscosity Feeding



YS-S300

300 ml Single-Station Silicone Dispenser

- Feed: dedicated 300 ml silicone cartridge
- Precision suck-back valve reduces stringing
- For silicone, sealant and glass adhesive
- Travel/speed confirmed by final model



YS-S2.6

2.6 L Silicone Feeding Dispenser

- Feed: 2.6 L silicone tank
- Travel: 300×300×100 mm
- Accuracy: ±0.02–0.05 mm
- Rated power: 400 W



YS-S10

Large-Capacity Pressure-Tank Feed System

- Tank options: 1/2/5/10 L
- For continuous feeding
- Mixing/heating/vacuum options
- Capacity and material depend on fluid



YS-SERVO

Servo High-Viscosity Dispenser

- Travel: 300×300×100 mm
- Servo electric dispensing
- Accuracy: ±0.02–0.05 mm
- Max speed: X800/Y800/Z600 mm/s

Hot-Melt & PUR Systems

Hot-Melt & PUR Systems



YS-HM30

30/50 ml Hot-Melt Dispenser

- Travel: 300 x 300 x 100 mm
- Hot-melt dispensing head
- Accuracy: +/-0.02-0.05 mm
- AC 220 V / 400 W



YS-HM300

300 ml Hot-Melt / PUR Dispenser

- Feed: 300 ml hot-melt cartridge
- Travel: 300 x 300 x 100 mm
- Accuracy: +/-0.02-0.05 mm
- Temperature zones depend on fluid



YS-HM-D

300 ml Dual-Station Hot-Melt Dispenser

- 300 ml heated cartridge feed
- Alternating dual stations
- Independent cartridge/nozzle temperature control
- Temperature range based on PUR/hot-melt requirements

Precision 2K Dispensing

Precision 2K Dispensing



YS-AB-S

2K Screw-Valve Precision Dispenser

- Feed: 2K screw valve
- Travel: 300×300×100 mm
- Accuracy: ±0.01–0.02 mm
- Max speed: X800/Y800/Z600 mm/s



YS-AB331

3-Axis 2K Dispensing / Potting Machine

- Reference ratios: 10:1 / 2:1 / 1:1
- Y-needle valve for clean shutoff
- Dot/line/surface/arc paths
- Optional cooling delays curing



YS-AB532

Dual-Station 2K Potting Machine

- Alternating dual stations
- Suck-back shutoff reduces dripping
- Static/dynamic mixing optional
- Ratio/flow configured by fluid

2K Potting & In-Line Systems

2K Potting & In-Line Systems



YS-AB-AUTO

Automatic 2K Potting System

- Reference range: 600×300×100 mm
- Reference ratio accuracy: ±2%
- Reference output accuracy: ±2%
- Metering pumps/tanks configured by fluid



YS-AB-LINE

Inline 2K Potting System

- Ratio: 1:1-10:1 (based on fluid)
- Accuracy: output +/-1% / ratio +/-1%
- Viscosity: <=20,000 cps
- Automatic conveyor handling



YS-AB-MAN

Semi-Automatic / Handheld 2K System

- Ratio: 1:1-10:1 (based on fluid)
- Output: 0.6-10 / 1.5-20 g/s options
- Accuracy: output +/-1% / ratio +/-1%
- Dynamic/static mixing optional

Desktop Vision Dispensing

Desktop Vision Dispensing



YS-V331

Desktop CCD Vision Dispenser

- Travel: 300×300×100 mm
- CCD control + servo drive
- Accuracy: ±0.01–0.02 mm
- Programs: 1000 × 4000 points



YS-V532

Dual-Platform Micro Vision Dispenser

- Travel: 500×300×100 mm
- CCD control + servo drive
- Accuracy: ±0.01–0.02 mm
- X/Y max: 800 mm/s



YS-JET

High-Speed Vision Jet Dispenser

- High-speed non-contact dispensing
- Reference minimum shot: 5 nL
- Reference minimum dot: 0.2 mm
- Valve-fluid compatibility testing required

Floor-Standing & In-Line Vision

Floor-Standing & In-Line Vision



YS-VF

Floor-Standing Full-View Dispenser

- Travel: 800×500×100 mm
- XY repeatability: ±0.01–0.02 mm
- XY max speed: 1200 mm/s
- IPC + servo drive



YS-VL

Inline Vision Dispensing Machine

- Travel: 300×300×100 mm
- XY repeatability: ±0.01–0.02 mm
- Conveyor transport
- I/O: 8 In / 8 Out + RS232

Selective Coating

Selective Coating



YS-COAT-3A

Conformal-Coating Dispensing Machine

- For selective conformal coating
- Stainless pressure tank option
- Valve/path selected by process
- Range/speed confirmed by final model



YS-COAT-4A

4-Axis Automatic Coating Machine

- Tilted and multi-angle coating
- Reduces overspray, dripping and mist
- For conformal coating and similar fluids
- Range/speed confirmed by final model

Surface Treatment & Curing

Surface Treatment & Curing



YS-PLASMA

Plasma Surface Treatment System

- Cleaning/activation before dispensing
- Improves wetting and adhesion
- Can integrate with dispensing cell
- Power/speed validated by material



YS-UV

Vision Dispensing + UV Curing Cell

- Vision + dispensing + UV curing
- Reduces re-positioning
- For UV adhesive applications
- Wavelength/energy matched to adhesive

Fluid Containers & Pressure Tanks

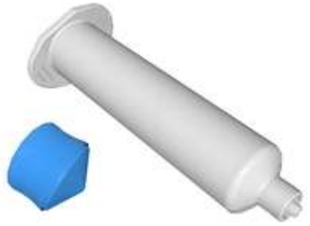
Fluid Containers & Pressure Tanks



Stainless pressure tank



Carbon-steel pressure tank



30/50 ml syringe

Syringes: 3–500 ml; cartridges: 300/330 ml; tanks: 1/2/5/10 L. Mixing, heating, vacuum and level alarm options.

Final valve, controller and consumable selection depends on fluid and process.

Suck-Back, Needle & High-Flow Valves

Suck-Back, Needle & High-Flow Valves



Mechanical needle valve



High-flow suck-back valve



Lift-type suck-back valve

Selected by viscosity, stringing, shot size and pressure. Wetted materials and seals require compatibility checks.

Final valve, controller and consumable selection depends on fluid and process.

Screw, Jet, Spray & 2K Valves

Screw, Jet, Spray & 2K Valves



Precision pneumatic jet valve



Hot-melt piezo jet valve



Static 2K valve

Includes 1K/2K screw valves, piezo/pneumatic jet valves, spray valves, and static/dynamic 2K mixing valves.

Final valve, controller and consumable selection depends on fluid and process.

Controllers, Syringes & Consumables

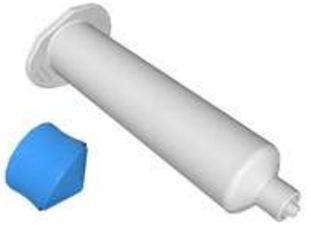
Controllers, Syringes & Consumables



Dispensing controller



Jet / temperature controller



Syringes & consumables

Suck-back, dual-air, jet and temperature controllers; syringes, needles, tubing, fittings, seals and mixing nozzles.

Final valve, controller and consumable selection depends on fluid and process.

Automatic Screwdriving

Automatic Screwdriving



Beyond dispensing, we coordinate related automation equipment and custom workstations with manufacturing partners. Each project is evaluated by part, cycle time, process and line interface.

Automatic Soldering

Automatic Soldering



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Customized Automation Cells

Customized Automation Cells



Beyond dispensing, we coordinate related automation equipment and custom workstations with manufacturing partners. Each project is evaluated by part, cycle time, process and line interface.

From Requirements to Delivery

FROM REQUIREMENTS TO DELIVERY

1. **Requirement & fluid review**
2. **Sample/fluid testing coordination**
3. **Solution & configuration confirmation**
4. **Build & factory verification**
5. **Packing, delivery & remote support**

Critical specifications, accuracy, speed, ratio and minimum shot are subject to final selection and testing.

Contact Us

CONTACT US

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