

JW MACHINERY

JW Automatic Glue Dispensing Robot Catalog

Precision Glue Dispensing & Coating Solutions for Assembly Automation

Professional automatic glue dispensing robots — 3-axis and 4-axis precision dispensing systems for silicone, epoxy resin, UV glue, AB glue and hot melt adhesives. Engineered for accuracy, repeatability and global manufacturing standards.

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Product Overview

Professional 3-axis/4-axis automatic glue dispensing robots for silicone, epoxy resin, UV glue, AB glue and hot melt adhesive applications



WPM-331

Automatic 4-Axis Glue Dispensing Robot with LCD Teaching Box



WPM-332

4-Axis Automatic Glue Dispenser Robot for Wire Harness Manufacturing



WPM-333

Standalone 3-Axis Automatic Hot Melt Glue Dispenser Machine



WPM-334

Desktop Automatic Hot Melt Glue Dispenser with R Axis



WPM-441

3-Axis Automatic Silicone Glue Dispensing Robot



WPM-AB1

Automatic AB Glue Dispensing Machine (Two-Component Epoxy Filling System)



WPM-5331

Automatic 3-Axis AB Glue Dispensing Machine with Dispenser Control System



WPM-4331

Universal Automatic Silicone Epoxy Resin UV Glue Dispensing Machine



WPM-551

Automatic 30ML PUR Hot Melt Desktop Glue Dispensing Robot



WPM-4A

4-Axis Automatic Rotating Dispensing Robot | High-Efficiency Glue Spreader Machine

Automatic 4-Axis Glue Dispensing Robot with LCD Teaching Box



Description

The WPM-331 is an advanced 4-axis automatic glue dispensing robot featuring a 320×240 LCD teaching box for intuitive on-machine programming. Its closed-loop motor system delivers superior positioning accuracy with $\pm 0.02\text{mm}$ repeatability, while the CNC-machined molded aluminum profile construction ensures structural rigidity and long-term stability. The innovative synchronous belt system eliminates tension and looseness issues common in long-term use. Supports CAD/CORELDRAW/PLT/G-code file import, stores up to 1,000 processing programs, and handles various adhesives including silicone, epoxy, UV glue, AB glue and hot melt. Ideal for electronics, communications, LED, automotive and wire harness industries.

Parameter	Value
Model Number	WPM-331
Axis Configuration	4-Axis (X/Y/Z/R)
Display	Teaching Box LCD 320×240
Motor System	Closed-loop motor
Repeat Accuracy	$\pm 0.02\text{mm}$
Max Speed	300mm/s (custom up to 800mm/s)
Drive Mode	Step/Servo motor (Japan), Sync belt, Linear guide (Taiwan)
Program Storage	1,000 sets (up to 5,000 points/file)
File Storage	Handheld 256M + Card 32M (up to 100,000 points)
File Support	CAD, CORELDRAW, PLT, TCF, G-code
Max Load (Y/Z)	5KG / 2KG
Power Supply	AC220V/110V, 50-60Hz, 350W
Working Temperature	5~40°C
Working Humidity	20~90% (No condensation)

Key Features

- 4-axis motion with R-axis rotation
- LCD teaching box for easy programming
- CNC-machined aluminum profile body

MODEL: WPM-331

4-Axis Automatic Glue Dispenser Robot for Wire Harness Manufacturing



Description

The WPM-332 is a 4-axis automatic glue dispenser robot purpose-built for wire and cable harness manufacturing. Its four-axis configuration (X, Y, Z plus rotation axis) enables precise adhesive application around connectors, splices and wire bundles from multiple angles. The integrated pressure regulating valve allows fine-tuning of syringe pressure from 0.05 to 0.9MPa for consistent bead control. Features include a 320×240 LCD teaching pendant, modular aluminum profile construction, Japanese stepper/servo motors with Taiwan linear guides, corner dispensing without residue or skew, U-disk program transfer, and full safety controls (emergency stop, reset, manual glue button). Supports CAD/PLT/TCF/G-code file import with 1,000 program storage.

Parameter	Value
Model Number	WPM-332
Axis Configuration	4-Axis (X/Y/Z/Rotation)
Pressure Adjustment	0.05-0.9MPa
Repeat Accuracy	±0.02mm-0.05mm (custom ±0.02mm)
Max Speed	300mm/s (custom up to 800mm/s)
Control System	Teaching hand-held control system (LCD 320×240)
Drive Mode	Step/Servo (Japan), Sync belt/Screw, Linear guide (Taiwan)
Program Storage	1,000 sets (5,000 points/file)
File Storage	256M + 32M card (100,000 points)
Max Load (Y/Z)	5KG / 2KG
Power Supply	AC220V/110V, 50-60Hz, 350W
Controls	Pressure valve, Manual glue, E-stop, Reset, Start/Pause
Data Transfer	USB disk upload/download
Application	Wire/Cable Harness, Electronics, Automotive

Key Features

- 4-axis rotation for complex harness paths
- 0.05-0.9MPa precision pressure regulation
- Designed for wire harness manufacturing

Standalone 3-Axis Automatic Hot Melt Glue Dispenser Machine



Description

The WPM-333 is a standalone 3-axis automatic hot melt glue dispenser that operates independently without requiring a continuous external computer connection. Its hand-held programmer supports CAD file import for quick setup of complex dispensing paths, including spatial linear and two-axis circular interpolation. Advanced trapezoidal and S-shape curve acceleration/deceleration intelligently manages speed at sharp bends to prevent glue stacking and accumulation, ensuring uniform and aesthetically pleasing results. Features online teaching for matrix copying, offset modification and correction points, universal I/O contacts for external device integration, multiple program storage for rapid job switching, and customizable configurations. Supports silica gel, UV glue, AB glue, epoxy, hot melt, solder paste and more.

Parameter	Value
Model Number	WPM-333
Operation	Standalone (no external computer required)
Axes	3-axis linkage (X/Y/Z)
X-axis Travel	400/500/600mm (selectable)
Y-axis Travel	300mm
Z-axis Travel	100mm
Programming	Hand-held programmer with CAD import
Interpolation	Spatial linear & 2-axis circular
Acceleration	Trapezoidal & S-shape curve (anti-glue stacking)
Max Speed	300mm/s (custom up to 800mm/s)
Repeat Accuracy	±0.02mm-0.05mm
Program Storage	1,000 sets / 3M per file (5,000 points)
File Storage	256M + 32M (100,000 points)
Power Supply	AC220V/110V, 50-60Hz, 350W
Max Load (Y/Z)	5KG / 2KG

Key Features

- Standalone operation without PC
- CAD file import for complex paths
- S-curve acceleration prevents glue stacking

Desktop Automatic Hot Melt Glue Dispenser with R Axis



Description

The WPM-334 is a compact desktop automatic hot melt glue dispenser featuring an integrated R (rotary) axis for circular patterns and angular dispensing around cylindrical components. Its precision valve spool core technology delivers accurate dispensing volumes down to 0.01ml, with a wide viscosity handling range from 1 to 1,000,000cps covering everything from thin solvents to thick sealants. The aluminum alloy body ensures stability and durability, while the compact lightweight design enables easy integration into desktop workstations. Compatible with all standard dispensing needles and suitable for PCB assembly, semiconductor packaging, consumer electronics, automotive electronics, LED manufacturing and sensor assembly requiring precise bonding, filling, sealing, dripping and coating.

Parameter	Value
Model Number	WPM-334
Product Name	Glue Dispenser with R Axis
Axis Configuration	Desktop with R (Rotary) Axis
Working Pressure	4-7kgf/cm ²
Operating Viscosity	1-1,000,000cps
Min Glue Amount	0.01ml
Feed Pressure	<10kg
Body Material	Aluminum alloy
Weight	30-50kg
Needle Compatibility	All standard dispensing needles
Suitable Glues	Hot melt, Silicone, Epoxy, UV, Solder paste
Application	PCB, Semiconductor, Consumer Electronics, LED, Sensors

Key Features

- 0.01ml ultra-precision dispensing
- Integrated R-axis for rotary patterns
- Wide viscosity range 1-1,000,000cps

3-Axis Automatic Silicone Glue Dispensing Robot



Description

The WPM-441 is a dedicated 3-axis automatic silicone glue dispensing robot with a 400×400×100mm working area, ideal for medium to large workpiece dispensing applications. It replaces manual operation with high-precision programmed movements, capable of dispensing dots, stripes, arcs and complex patterns on both flat and curved surfaces. The double-track timing belt transmission and stepper motor drive deliver smooth motion at up to 500mm/s with $\pm 0.05\text{mm}$ repeatability. Supports PLT, TCF, G-code and computer graphics import for flexible programming. Stores up to 400 processing files with 9999 points per file. Compatible with silicones, epoxies, UV glue, AB glue, cyanoacrylates, sealants, conductive adhesive, thermal grease and other industrial fluids. Widely used in electronics, automotive, home appliances, battery packaging and PCB manufacturing.

Parameter	Value
Model Number	WPM-441
Controlled Axes	3-Axis (X/Y/Z)
X-axis Travel	400mm
Y-axis Travel	400mm
Z-axis Travel	100mm
Transmission	Double-track timing belt
Power Source	Stepper motor
Top Speed	500mm/sec
Repeat Accuracy	$\pm 0.05\text{mm}$
Max Load (X/Y/Z)	5kg/5kg/2kg
Control System	Hand-held 3-axis control system
File Storage	400 processing files, up to 9999 points/file
File Support	PLT, TCF, G-code, Computer graphics
Power Supply	AC110-250V, 50-60Hz, 350W
Dimensions (L×W×H)	620×685×596.5mm
Weight	59kg

Key Features

- 3-axis precision for silicone dispensing
- 500mm/s high-speed operation
- 400×400mm large working area

MODEL: WPM-441

Automatic AB Glue Dispensing Machine (Two-Component Epoxy Filling System)



Description

The WPM-AB1 is an automatic AB glue dispensing machine featuring an integrated metering, mixing and dispensing system for two-component adhesives such as epoxy resin, polyurethane and silicone. It supports adjustable mixing ratios from 1:1 to 10:1 to accommodate various two-part material formulations, with precise glue flow control from 0.5 to 20g/s. The 3-axis robotic platform enables automated dispensing of dots, lines and complex patterns with high repeatability. Ideal for potting electronic components, sealing cable harness connectors, encapsulating power adapters and LED modules, bonding automotive parts, and any application requiring consistent mixing and dispensing of two-component adhesives. Eliminates manual mixing errors and ensures uniform ratio for reliable bond strength and curing performance.

Parameter	Value
Model Number	WPM-AB1
Dispensing Types	Dots, Lines, Complex Patterns
Axis Configuration	3-Axis Robot with AB Glue Filling System
Adhesive Compatibility	AB Glue, Epoxy Resin, Polyurethane, Silicone (Two-Component)
Mixing Ratio	1:1 to 10:1 (Optional/Adjustable)
Glue Flow Rate	0.5-20g/s
Control System	Automatic glue filling control system
Application	Potting, Sealing, Bonding, Encapsulation, Filling
Industries	Electronics, Cable Harness, Automotive, LED, Power Supply

Key Features

- Automatic AB glue mixing & dispensing
- 1:1 to 10:1 adjustable ratio
- 0.5-20g/s precise flow control

Automatic 3-Axis AB Glue Dispensing Machine with Dispenser Control System



Description

The WPM-5331 is a heavy-duty automatic 3-axis AB glue dispensing machine equipped with a dedicated dispenser control system for two-component adhesive applications. Its generous 500×300×100mm working area (with dual Y-axis capacity) and 10kg/5kg Y/Z load rating accommodate larger workpieces and dispensing valve setups. High-speed operation up to 800mm/s on X-axis with ± 0.02 mm repeat accuracy ensures both productivity and precision. The teach pendant programming supports dots, strips, arcs and complex patterns on different planes and curved surfaces, with PLT/TCF/G-code file import. Sheet metal body construction provides enhanced rigidity for industrial continuous operation. Suitable for AB glue, epoxy resin, silicones, UV glue and other adhesives in electronics, automotive parts, home appliances, battery packaging and PCB assembly.

Parameter	Value
Model Number	WPM-5331
X-axis Travel	500mm
Y1/Y2 Travel	300mm / 300mm
Z-axis Travel	100mm
Max Load (Y/Z)	10kg / 5kg
Speed (X/Y/Z)	800/350 mm/s
Repeat Accuracy	± 0.02 mm
Storage Capacity	100 groups, 4000 points per group
Programming Method	Teach pendant
Body Material	Sheet metal
Transmission	Synchronous belt
Compatible Glues	AB Glue, Epoxy, Silicone, UV, Cyanoacrylates, Sealants
File Support	PLT, TCF, G-code, Computer graphics
Applications	PCB, Sensors, Relays, Automotive, Battery Packaging, IC Packaging

Key Features

- 500mm large working area with dual Y
- ± 0.02 mm high precision
- Dedicated AB glue dispenser control

Universal Automatic Silicone Epoxy Resin UV Glue Dispensing Machine



Description

The WPM-4331 is a universal automatic glue dispensing machine supporting a comprehensive range of adhesive materials including silicone, epoxy resin, UV glue, AB glue, anaerobic adhesives, cyanoacrylates, white glues, greases, sealants, solder pastes, thermal grease, conductive adhesive, red gum and polyurethane resin adhesives. Its 4-axis dual-Y configuration (X, Y1, Y2, Z) enables flexible workpiece positioning and efficient dispensing on both workstations alternately. Features Taiwan linear guides (X/Y dual rail, Z single rail), YAKO stepper drives, Ming Wei power supply, and double-track timing belt transmission for smooth, precise motion. The hand-held controller supports programming of dots, stripes, arcs and patterns on flat and curved surfaces, with PLT/TCF/G-code file import. Ideal for sensors, relays, power adapters, speakers, PCB bonding, IC packaging, battery packaging, optical devices, automotive parts and mechanical sealing applications.

Parameter	Value
Model Number	WPM-4331
Controlled Axes	4-Axis (X/Y1/Y2/Z)
X-axis Travel	400mm
Y1/Y2 Travel	300mm / 300mm
Z-axis Travel	100mm
Transmission	Double-track timing belt
Power Source	Stepper motor
Top Speed	500mm/sec
Repeat Accuracy	±0.05mm
Max Load (X/Y/Z)	5kg/5kg/2kg
Control System	Hand-held control system
File Storage	400 files, up to 9999 points/file
Power Supply	AC110-250V, 50-60Hz, 350W
Dimensions (L×W×H)	620×585×596.5mm
Weight	63kg
Linear Guides	Taiwan X/Y dual rail, Z single rail

Key Features

Universal multi-glue compatibility
4-axis dual-Y for versatile workholding
Silicone/Epoxy/UV/AB all-in-one

Automatic 30ML PUR Hot Melt Desktop Glue Dispensing Robot



Description

The WPM-551 is a dedicated PUR (Polyurethane Reactive) hot melt desktop glue dispensing robot with a large 500×500×100mm working area. It features specialized PUR/PUH hot melt dispensing heads compatible with 30ml or 50ml glue cartridges, delivering a minimum discharge of 0.01ml at up to 5 times per second. The 3-axis system supports comprehensive motion patterns including points, lines, arcs, circles, curves, multi-lines, spirals and ellipses. Premium components include Taiwan HIWIN linear guides, TBI ball screws and Italian synchronous belts for superior precision ($\pm 0.02\text{mm}$) and durability. The single-chip controller with LCD teaching box supports both teach programming and graphics import, storing over 100 programs with 5000 points each. With RS232 external interface, 10KG load capacity and 600mm/s speed, it is ideal for cable harness potting, electronics assembly and precision hot melt applications.

Parameter	Value
Model	WPM-551
Working Range	500/500/100 mm (X/Y/Z)
Axes	3-Axis (X/Y/Z)
Programming	Teach pendant or graphics import
Motion Patterns	Point, line, arc, circle, curve, spiral, ellipse
Control System	Single-chip + hand box control
Dispensing Head	PUR/PUH hot melt dispensing head
Glue Cylinder	30ml or 50ml
Min Discharge	0.01ml
Glue Frequency	5 times/SEC
Load Capacity	10KG
Axial Speed	0-600mm/sec
Repeatability	$\pm 0.02\text{mm}$
Program Storage	100+ programs, 5000 points each
Guides/Screws	Taiwan HIWIN linear guide, TBI ball screw
Power Supply	AC110V~220V
Interface	RS232 external control
Dimensions	720×785×596.5mm
Weight	65KG

Key Features

- PUR hot melt dedicated with 30/50ml cartridge
- $\pm 0.02\text{mm}$ precision with TBI ball screw
- 500×500mm large desktop working area

MODEL: WPM-551

4-Axis Automatic Rotating Dispensing Robot | High-Efficiency Glue Spreader Machine



Description

The WPM-4A is a 4-axis automatic rotating dispensing robot featuring X/Y/Z linear axes plus an R rotary axis for high-efficiency glue spreading on complex three-dimensional parts. The integrated R-axis enables 360-degree rotary dispensing around cylindrical components such as connectors, terminals, bottle caps and cylindrical housings without repositioning the workpiece, ensuring uniform adhesive coverage with no seams or gaps. Compatible with a wide range of adhesives including anaerobic, cyanoacrylates, epoxy, silicone, UV glue, AB glue, polyurethane, sealants, solder paste, thermal grease and conductive adhesive. Supports PLT/TCF/G-code file import and programming of dots, stripes, arcs and complex patterns on both flat and curved surfaces. Ideal for sensor potting, relay sealing, PCB conformal coating, IC encapsulation, automotive mechanical parts coating, battery packaging, optical device bonding and any application requiring circumferential or multi-angle adhesive application.

Parameter	Value
Model Number	WPM-4A
Axis Configuration	4-Axis Rotary (X/Y/Z/R)
Dispensing Types	Dots, stripes, arcs, patterns on planes/curved surfaces
File Compatibility	PLT, TCF, G-code
Suitable Adhesives	Anaerobic, Cyanoacrylates, Epoxy, Silicone, UV, AB Glue, PU, Sealants, Thermal Grease
R-Axis Function	360° rotary dispensing for cylindrical parts
Programming	Hand-held teach pendant + graphics import
Applications	Sensors, Relays, PCB, IC Packaging, Automotive, Electronics, Battery Packaging, Optical Devices
Key Benefit	360° uniform coverage without workpiece repositioning

Key Features

- 4-axis rotary for 360° dispensing
- No repositioning needed for cylindrical parts
- High-efficiency glue spreading automation

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