Arsenal Products’ robotic adhesive dispensing system has been designed to take the headache out of developing an adhesive dispensing process. Our system leverages the accuracy and repeatability of a Universal Robot paired with precision dispensing controls, ensuring your process is up and running quickly.

The Universal Robot’s intuitive programming interface means you can deploy a precision dispensing system rapidly with no programming experience.

Arsenal’s adhesive dispensing kit is integrated with the Universal Robot and can be used with the UR3, UR5, and UR10 robot platforms. The system includes precision pressure and vacuum controls, robot interface hardware, and universal syringe mount kit.

While most robotic dispensing systems provide a 3-axis motion, pairing our robotic adhesive dispensing kit with a 6-axis Universal robot gives you precision dispensing in any configuration or orientation for the greatest flexibility and fastest deployment.
PRECISION DISPENSING CONTROLS

» Precision pressure control from 0-100 psi/0-7 bar with accuracy of ±2.0 psi
» Vacuum pullback capable from 0-18 in H20 with accuracy of ±2.0 in H20
» Constant bleed air pressure regulation for consistent pressure settings
» Up to 16 memory settings

APPLICABLE TO MOST ADHESIVES AS WELL AS FLUIDS, GELS, AND SEALANTS INCLUDING:

» Cyanoacrylate
» UV cure adhesives
» RTV adhesives and sealants
» Silicone for medical applications
» Conformal coatings
» Application of flux
» Epoxy
» Primers, accelerators, and activators
» Electrically conductive adhesives
» Thermoset and thermostatic resins
» Potting compounds

APPLICATIONS

» Medical devices
» Electronics
» Automotive
» Aerospace
» Industrial assembly
ROBOTIC DISPENSING KIT INCLUDES

» Dispensing controller
» Universal syringe mount for 3, 5, 10, and 30 cc syringes
» Robot to dispensing controller cables
» Luer lock attachment for syringe and dispensing tip*

*Syringes, wipers, dispensing tips, and syringe adapter assemblies sold separately

RAPID, GRAPHIC BASED DISPENSE PATH PROGRAMMING UTILIZING UNIVERSAL ROBOT TEACH PENDANT FOR ACCURATE ADHESIVE PLACEMENT IN ANY CONFIGURATION

» Robot payloads of 3/5/10 kgs (6.6/11/22 lbs)
» Working reach of 500 to 1300 mm (19.7 – 51 inches)
» 6-axis of motion allows for accurate placement adhesive on any shape, surface, or orientation in continuous motion
» Repeatability of 0.1 mm (.004 in / 4 mils)
» No computer programming skills required

FACILITY REQUIREMENTS

» 120V AC, 50-60 Hz
» 100 psi of clean, dry compressed air