

# Robotic Dispensing System with Three Jetting Valves



## Description



This three jetting valve dispensing system condenses the

dispensing process, helping to achieve greater productivity with higher throughput. This complete dispensing system comprises a [Fisnar benchtop robot](#) with [vision system](#), three [Vermes jetting valves](#) with controllers integrated into a [robot enclosure](#) structure, and the feed mechanisms for the material to be dispensed, which can be connected either to [cartridge retainers](#) or [pressure pots](#). The fully integrated system includes an interlock for operator safety, and the valves have been spaced on the mounting brackets to match the customer's dispensing requirements.

The customer who commissioned this system is dispensing three different reagents, each with a dedicated valve. The valves are programmed to dispense each reagent in turn. Though they are mounted linearly, they are actuated independently.

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A camera vision system is incorporated to allow for easier, more accurate programming using fiducial marks to provide exact control over dispensing placement.

A system of this nature could be used for dispensing of many different kinds of materials, including surface mount adhesives, grease, small volumes of optical materials, solder paste and more.

## Features & Benefits

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- Higher throughput achieved through condensing three dispensing operations onto one robot
- System provided fully configured and installed, with training provided to get the customer up and running quickly
- Bespoke system designed to meet spacing requirements for dispensing onto customer's part
- Interlocked enclosure protects operators from moving parts
- Controls mounted immediately above the robot for easy access
- Camera vision system assists with precision of dispensing placement

## Applications

Dispensing of multiple materials or more than one dot simultaneously, including:

- Reagents
- Surface mount adhesives
- Grease
- Optical materials
- Solder paste
- Other materials with a tendency toward "stringing"
- Materials required in micro- or nanolitre deposits

## Ordering Information

# Robotic Dispensing System with Three Jetting Valves



This three jetting valve robotic dispensing system is an example of our [archytas series of robot integrations](#). If you are interested in a similar system, [get in touch with our Technical Team](#) to discuss your requirements.

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