# Robotic Dispensing System with Four Hot Melt Jetting Valves

## Description


Highlighting the flexibility and capability of our *archytas series* robot integrations, this robotic dispensing system allowed our customer to combine multiple hot melt jet dispensing heads into one single semi-automated cell.

Consisting of a **Fisnar F9000-series gantry robot**, a laser height detection system, and four **Vermes hot melt jetting valves**, the unit is capable of processing batches of products, as well as larger form parts. Material is fed into the system using a heated cartridge.

With an ability to carry up to a 7kg payload at its head, the F9000 series gantry robot not only allows multiple dispensing valves to be installed, but it is also able to position them repeatably, with a

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resolution of 0.01mm.

The robot, and all the controls for the numerous valves and controllers are housed in a custom, free standing enclosure which allows safe operation from the outside. Enclosures can be custom-designed to suit your production area layout and size.

## Features & Benefits

-  Ultra-precise contactless dispensing of a hot melt adhesive across a large part
- Reduced production times and increased throughput as a result of fast speeds: potential jetting frequency >3,000Hz

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- Higher throughput achieved by using four dispensing valves
- Controls mounted for easy access
- Enclosure light curtains protect operators from moving parts

## Other Information

This 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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