

Adaptable and Accurate Dispensing with Robot and Vision System



Description



Providing production flexibility and productivity

improvements to a customer batch producing components, this system comprises a **Fisnar benchtop robot** with a **vision system** and 30cc syringe dispenser, in a custom enclosure. This equipment configuration allows the system to effectively dispense different kinds of materials, including surface mount adhesives, greases and solder pastes with repeatability down to $\pm 0.008\text{mm}$.

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Able to store up to 100 programs, the **Fisnar F4000 ADVANCE dispensing robot** provides the customer with manufacturing flexibility, allowing programs to be quickly selected to facilitate batch part production.

By integrating a camera vision system onto the robot, dispense programs can be created using camera image software to move the robot to the exact required dispense location. Fiducial marks on parts also allow for system auto-adjustment, reducing the chance of part rejects.

The system is housed inside a free-standing custom enclosure complete with integrated controls, computer stand for ease of programming, and light curtains for operator safety. Enclosures can be custom-designed to suit your production area layout and size.

Features & Benefits



Consistent, repeatable dispensing reduces potential part rework time

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- Dispense program selection enables a flexible batch production process
- Enclosure light guides protect operators from moving parts
- Quick to set up and easy to program speeds up integration
- Controls mounted immediately above the robot for easy access
- CCD vision-based programming and fiducial auto-adjustment system

Applications

The semi-automated dispensing of:

- Surface mount adhesives
- Greases
- Sealants
- Solder pastes
- Temporary masking liquids

Ordering 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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