

# Dispensing...

With **VISION**



The **AVS-1215 vision system** is a fully automatic process that adds a new dimension of productivity and accuracy to fluid dispensing. Using advanced algorithm technology, this system can register locations of fiducial marks, corners, edges and even color variations. Because of this, more positive results are possible for application driven dispensing production. The system requires **no external PC** for operation or programming. All parameters are stored on the robot's **Compact Flash Card**.

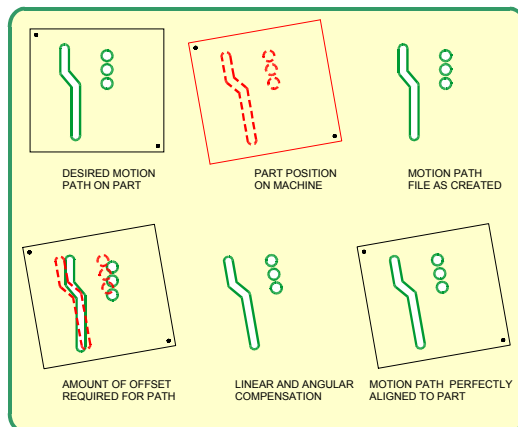


## Hundreds of Applications:

- ELECTRONIC
- AUTOMOTIVE
- MEDICAL
- TELECOMMUNICATION
- HARDWARE
- PLASTICS
- HOUSEWARE

The **RP-1215 Dispensing Robot** shown with optional vision system, dispense valve, pressure canister and vacuum tooling plate

The vision system / robot perform the following algorithms prior to the dispensing operation:



- Robot positions to theoretical target location
- Camera records actual position from target
- Robot positions directly over target & captures X-Y offset values
- Robot moves to second target position
- Camera records actual position from 2<sup>nd</sup> target
- Processor computes target position to determine angular offset
- Robot's Cartesian coordinate system is temporarily redefined
- Program path is now directly over the product as it is staged

FIDUCIAL



RING



HOLE



TARGET



CROSSHAIR



CORNER



BLOB



RECTANGLE



POINT



GEOMETRY



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