

# SPECIFICATIONS: AUTOMOVE® A-400 SERIES

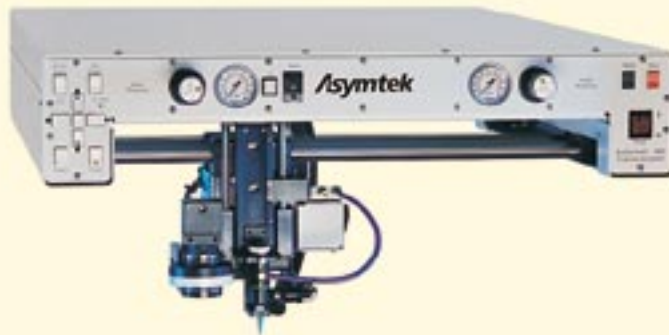
## AUTOMOVE® A-400 SERIES AUTOMATED FLUID DISPENSING SYSTEMS

The Automove® 400 Series is a highly configurable, automatic fluid dispenser providing exceptional dispensing accuracy and throughput. Designed to replace hand-held dispensers, the Automove 400 series can be programmed to dispense dots or continuous lines for applications ranging from surface mount electronics to form-in-place gasketing.

The Automove 400 series accommodates a wide variety of fluids and parts in today's rapidly changing manufacturing environment. Several process enhancement options can be added to the system to meet specific application requirements, including: a programmable camera to assist in process setup, automatic pattern recognition for substrate alignment, a needle sensor for detecting differences in position due to needle changes, a height sensor that compensates for board warpage, mechanical part fixturing, and a needle heater to control fluid viscosity during dispensing.

Dispensing programs can be fine-tuned using on-line fluid parameter adjustments. Any combination of dots, lines, circles, arcs, and area paints at variable heights can be included in one program. The continuous path function ensures that connected shapes will be dispensed at one constant velocity ensuring consistent bead diameter.

Offering an unmatched combination of cost-effectiveness and flexibility, the Automove 400 series is optimal for low- to medium-volume production, as well as lab and prototype environments.



### FEATURES

- Batch dispensing for a wide range of applications for low- to medium-volume production, as well as lab and prototype environments
- From initial set-up, Fluidmove® uses an easy step-by-step programming approach
- Patterns can be saved and retrieved from the macro library, making it easy to create new programs
- Up to 10 programs can be stored in onboard memory allowing computer-free operation in production
- Eight extra inputs and outputs provide interface to conveyors and other I/O triggered devices for further automation
- Available in benchtop or gantry configuration

# AUTOMOVE® A-400 SPECIFICATIONS:

## MOTION SYSTEM:

Type: Brushless DC Stepper Motor  
 X-Y Axes Speed: 0-508 mm/s (0-20 in./s) max.  
 System Repeatability: ±0.025 mm (0.001 in.)  
 System Resolution: 0.025 mm (0.001 in.)  
 Placement Accuracy: ±0.13 mm (0.005 in.)  
 Z-Axis Speed: 0-203 mm/s (8 in./s) max.  
 Z-Axis Repeatability: ±0.025 mm (0.001 in.)  
 Z-Resolution: ±0.025 mm (0.001 in.)

## DISPENSE AREA:

A-402: 305 (X) x 305 (Y) mm  
 (12 x 12 in.)  
 A-403: 457 (X) x 457 (Y) mm  
 (18 x 18 in.)

## GENERAL SPECIFICATIONS:

Drivers: (3) 6 Watt, 24 VDC each  
 Inputs: 8 opto isolated inputs  
 Outputs: 8 open collector outputs

## FACILITIES REQUIREMENTS:

System Footprint: See illustration  
 Power: 110/120/220/240 VAC  
 50/60 Hz, 200 Watts  
 Air Pressure: 690 kPa, (90 psi)  
 Air Volume: 28 liters/min (1 CFM)  
 Noise: <70 dBA  
 Environmental: 5-55 °C,  
 5%-90% RH  
 (below 40 °C)  
 Shipping Weight: A-402 and A-402A  
 (approx. with crate) 32 kg (70 lbs.)  
 A-403 and A-403-A  
 43 kg (95 lbs.)

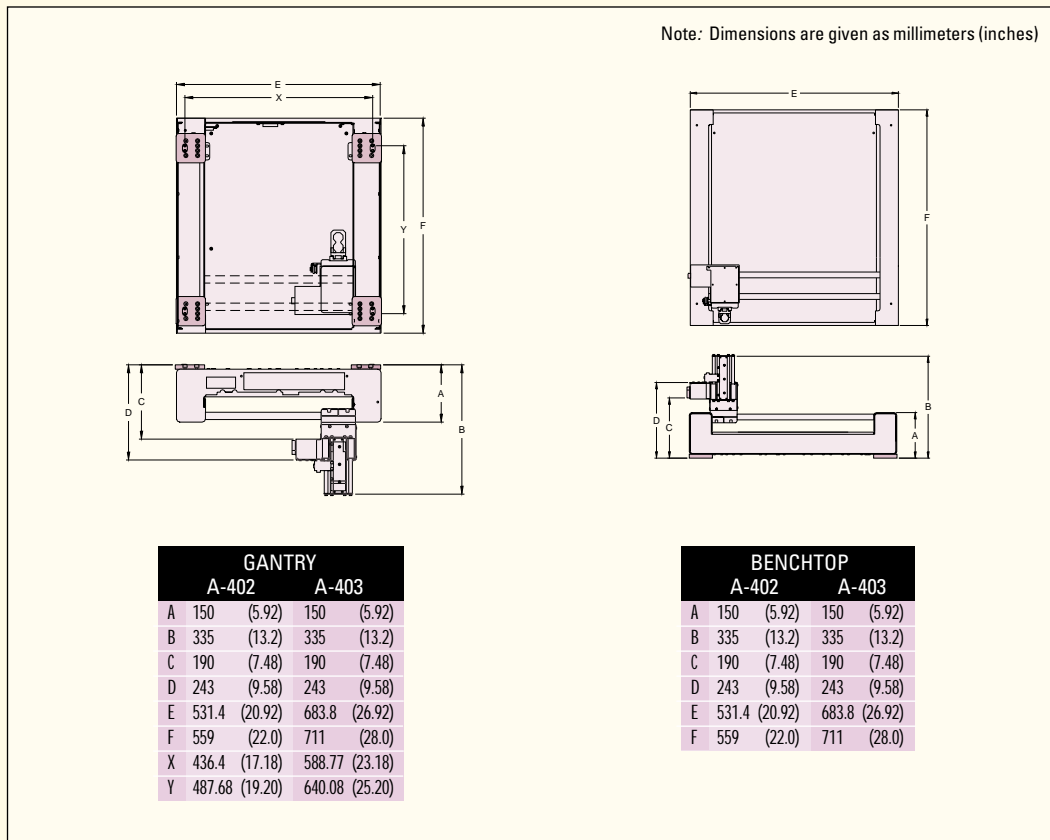
## VALVES:

Valve selection subject to fluid properties and application

## OPTIONS:

Height Sensor  
 Needle Sensor  
 Needle Heater  
 Dual and Triple Valve Brackets  
 Tooling Fixtures  
 Targeting Offset Camera  
 (picture-in-picture)  
 Automatic Pattern Recognition System

*Other options are available.  
 Contact us for further information.*



Please contact these locations for the name of your local representative.

## HEADQUARTERS

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Contact Asymtek for your specific application requirements.

