

PRODUCT INFORMATION: SPECTRUM™ S-822

SPECTRUM™ S-822

PRECISION STANDALONE DISPENSING FOR SEMICONDUCTOR APPLICATIONS

The Spectrum™ S-822 Series system is designed for production of semiconductor and electronics packaging processes, such as chip scale package (CSP) underfill, cavity fill, die attach, and encapsulation. The S-822 is a standalone system with dual-shuttle stages to increase the productivity achieved in such processes. Ideal for labs, lean production environments, and new product introductions, the S-822 system offers the controlled precision dispensing capabilities and many of the patented processes found in Asymtek's advanced in-line systems.

The S-822 system allows parallel processing on two shuttle stages for nearly continuous dispensing, which significantly reduces lost time in non-dispensing activities such as pre-heating, loading, and unloading parts. The dispenser's two stages automatically slide in and out through an opening in the front of the machine, allowing the operator to safely unload and load one side while dispensing continues on the other stage.

The S-822 performs with a wide range of fluids, processes, and substrates used in semiconductor packaging and assembly. It easily integrates with most jets, pumps and valves from Asymtek, including the DispenseJet® DJ-9000.

The processes developed on the S-822 can be transferred to an inline Spectrum™ or Axiom™ platform. Production can be expanded with minimal configuration downtime and seamless transition from engineering development to inline manufacturing.

The S-822 is fully supported by Asymtek's exclusive Fluidmove® for Windows XP® software, providing dispense programming control within a familiar Windows® environment.



FEATURES & BENEFITS:

- Dual shuttle stages for increased productivity and machine utilization
- Fluidmove® for Windows XP® software for easy-to-use programming control
- Patented Mass Flow Control automatically compensates for changes in fluid viscosity
- Automatic Pattern Recognition System for accurate identification of global and local fiducials
- Optional impingement or contact heated tooling surfaces for one or both shuttle stages.

Packaging - Processing

Bid on Equipment

1-847-683-7720

www.bid-on-equipment.com

Asymtek
A NORDSON COMPANY

SPECTRUM S-822 SPECIFICATIONS:

MOTION SYSTEM:

Type: Brushless DC servo motors, closed-loop with encoder feedback
Encoder Resolution: 10 micrometers
X-Y Acceleration: 0.25 g peak with S-curve jerk control
X-Y Velocity: 500 mm/s (20 in./s)
Z-Axis Velocity: 500 mm/s (20 in./s)
Positional Accuracy: ± 0.075 mm (0.003 in.), 3 sigma
X-Y Repeatability: ± 0.025 mm (0.001 in.)
Z-Axis Repeatability: ± 0.025 mm (0.001 in.)

DISPENSE AREA:

Work Envelope: Dual shuttle stages

- Without heat, each accommodates parts up to 200x180 mm
- Impingement heater accommodates 145x175 mm parts
- Vacuum Hot Plate accommodates 190x170 mm parts

Z-Travel: 75 mm
Tool Payload: 3 kg
Workpiece Payload: 2 kg

VISION AND LIGHTING:

Vision: Vision system with Automatic Pattern Recognition
Lighting: Programmable, on-axis, red/blue LED, 256 steps

COMPUTER:

Windows-based Laptop PC with mouse

SOFTWARE:

User Environment: Fluidmove[®] for Windows[®] XP
Operating System: Windows[®] XP

FLUID DELIVERY METHOD:

DispenseJet[®] DJ-9000
Heli-flow[®] DV-7000 and DV-8000 pumps
DV-01, DV-02, DV-03, DV-04, DV-05, DV-09.

FACILITIES REQUIREMENTS:

System Footprint:

866 mm wide X 1123 mm deep (34 x 44 in.)
Display extends 610 mm (24 in.)
Height including light beacon: 2045 mm
Dimensional diagrams on next page.

Air Supply:

621 kPa (6.1 atm, 90 psi)
3 CFM @ 90 psi (28 liters/hr = 1 SCFM)
May be higher depending upon application

Power (Mains):

200/240 VAC, 10 Amps (max), 50/60 Hz, Single Phase

Weight:

340 kg (750 lbs)

OTHER STANDARD FEATURES:

Integrated height sensor
Needle heater control, software-programmable setpoints
Needle tactile sensor
Vacuum purge station
Light beacon with audible alarm
Precision air regulators
Low air pressure alarm, with programmable setpoint
Advanced Process Control Modules:

- Mass Flow Control (MFC)
- Calibrated Process Jetting (CPJ)
- Jet on the fly (JOF)
- Dynamic Dispense Control (DDC)

OPTIONS:

Heated tooling plates with software-programmable setpoints for one or both shuttle stages
Dual-Action Dispensing Head
Laser Height Sensor
Low fluid sensor
CADImport software program
SECS/GEM interface
Additional options are available; contact Asymtek for further information.

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

HEADQUARTERS

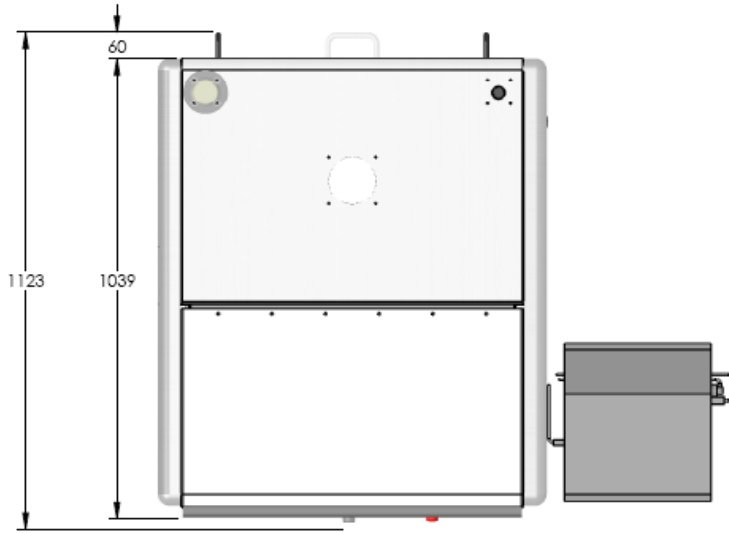
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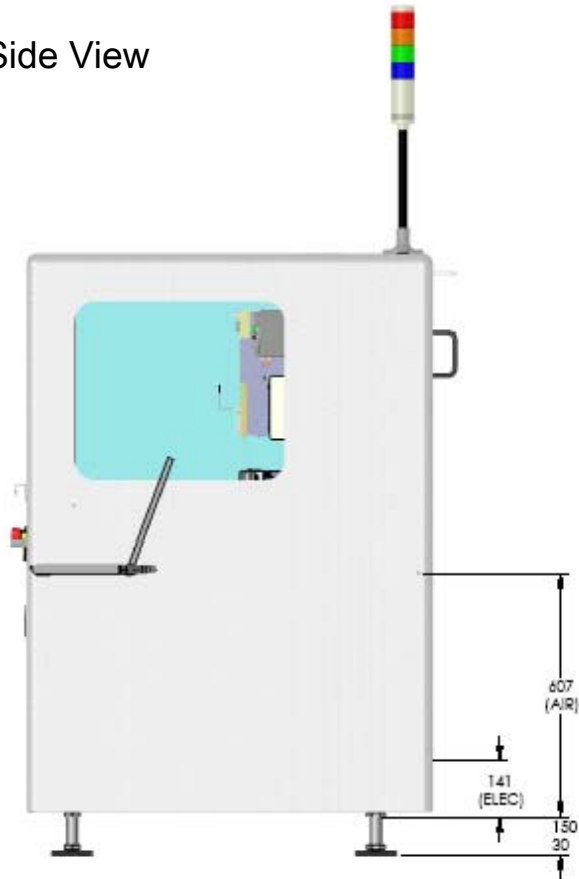
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SPECTRUM™ S-822 DIMENSIONS

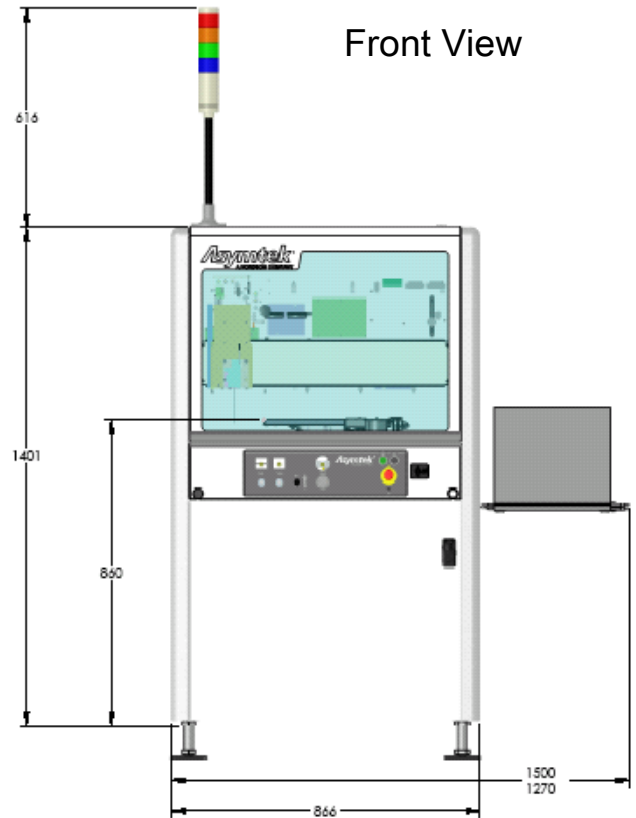
Top View



Side View



Front View



Asymtek reserves the right to make design changes to products to improve their function. These changes may occur between publishing. Contact Asymtek for your specific application requirements.

Asymtek is ISO 9001:2000 Certified
 Intel's 2003, 2004, 2005, 2006, 2007 SCQI award winner

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