

# Camalot®

# SmartStream®

Patent-pending technology

Narrow stream width

Closed-loop servo drive control

Wear free operation

Few consumables parts – Low CoO

Maintenance time <2 minutes

## Non-Contact Dispense Pump



Camalot's SmartStream non-contact dispense pump technology offers a cost-effective, accurate and easily-maintained alternative to jetting-based designs. This new and innovative system features patent-pending technology known as "Streaming," in which material is dispensed in a narrow column, rather than a single sphere.

SmartStream eliminates use of a needle and incorporates positive displacement of the dispensed material with a piston and barrel combination. Controlling the piston with a closed-loop servo drive achieves a high degree of accuracy and repeatability for consistent process results.

Durability, ease of maintenance and low cost of ownership were key design drivers for SmartStream as well. Unlike competitive systems, SmartStream does not strike the nozzle/seat with the piston, so wear on internal parts is greatly reduced and it's much quieter in operation. Wetted parts are manufactured with materials designed to resist abrasion, from fillers contained in most underfills. The piston/chamber are carbide and the nozzle uses an industrial sapphire insert. The fluidic module is separate from the pump, so it can be easily removed for maintenance without special tools. A spare module is included with the pump upon purchase.

SmartStream is compatible with all currently available Camalot system options and may be retrofitted in the field. This new technology provides an accurate, repeatable and cost-effective dispense method that is well-suited to many applications.

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## PLATFORM COMPATIBILITY



XyflexPro+

- Award winning, high performance dispense platform
- Closed-loop, linear motor drive system
- Twice the positional accuracy of most dispensers
- Applications flexibility



FX-D

- Industry's most configurable dispense platform
- Precision ground ball screw drive system
- Large dispense area
- Robust design architecture



XyflexPro+ DLM

- Up to 80% increased productivity over a single lane dispenser
- Multi tasking software optimizes head utilization
- 6 heated zones standard
- Closed-loop, linear motor drive system

### SMARTSTREAM SPECIFICATIONS

Voltage	110 - 240 VAC
Air Supply	0 - 30 PSI
Dimensions	85mm x 75mm x 160mm
Weight	0.53kg
Control	Closed-loop, linear DC servo
Encoder	Linear glass scale
Piston/Barrel Material	Carbide
Nozzle Heat	Up to 70c
Material Level Sensor	Included as standard
Nozzle Material	Steel with Sapphire insert
Nozzle Diameters	100 - 250um
Maintenance Time	<10 mins
Direct Mount Syringe Sizes	10cc, 30cc, 6oz & 20oz cartridges

#### ABOUT SPEEDLINE TECHNOLOGIES

Speedline Technologies is the global leader in process knowledge and expertise for the PCB assembly and semiconductor industries. Based in Franklin, Massachusetts, U.S.A., the company markets five best-in-class brands — Accel microelectronics cleaning equipment; Camalot dispensing systems; Electrovert wave soldering, reflow soldering, and cleaning equipment; MPM stencil and screen printing systems; and Protect global services, support, and training solutions. For more information, visit us at [www.speedlinetech.com](http://www.speedlinetech.com).

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