

SmartStream™ FAQs



- Uses a unique, “Streaming” delivery method
- Closed-loop servo drive control ensures fast, repeatable results
- Narrow stream width for access into densely packaged areas
- Low cost Sapphire nozzles withstand material abrasion
- Fluidic module with all wetted parts is easily maintained without having to remove complete pump assembly
- For high reliability and lost cost of ownership, streaming is achieved without mechanical contact of a ball to a seat
- 10cc - 150cc syringes direct mount to the pump
- Compatible with existing on-board cleaner and weight scale options

Q: What is SmartStream?

A: SmartStream is a new, innovative pump technology from Camalot that eliminates the use of a needle.

Q: How does it work?

A: The pump uses a linear motor/encoder that drives a piston at high frequency to generate a dispense stream through a nozzle.

Q: What makes it different?

A: Unlike jetting techniques, the SmartStream pump displaces material through a chamber with a piston so it is still considered positive displacement, which has long been recognized as the most accurate method of dispensing.

Q: What are SmartStream benefits?

A: The unique operation of the pump allows the piston to rapidly stop before contacting the nozzle or seat so eliminates the mechanical wear normally associated to Jetting. Streaming displaces a column of material rather than a sphere thus attaining high flow rates; combining this with the positive displacement design gives fast, repeatable dispensing results.

Q: How easy is it to clean?

A: The fluidic housing that contains all wetted parts is removed easily by releasing a thumbscrew, the pump itself can stay on the machine. The fluidic unit is then easily taken apart for cleaning. Maintenance takes less than 10 minutes and is very inexpensive from a consumables standpoint, less than \$1 a day.

Q: Is the pumps operating method proprietary to Camalot?

A: Yes. The unique operating method differentiates it from our competitors and, in fact, Camalot has applied for our own patent on this.

Q: What materials can it dispense?

A: SmartStream has been developed specially for Underfill applications, many materials have been tested as part of the development. Please consult with the factory to ensure pump compatibility for any applications.

Q: What platforms will SmartStream be available on?

A: SmartStream will be available on Prodigy platform. It will also be upgradeable to these platforms in the field.