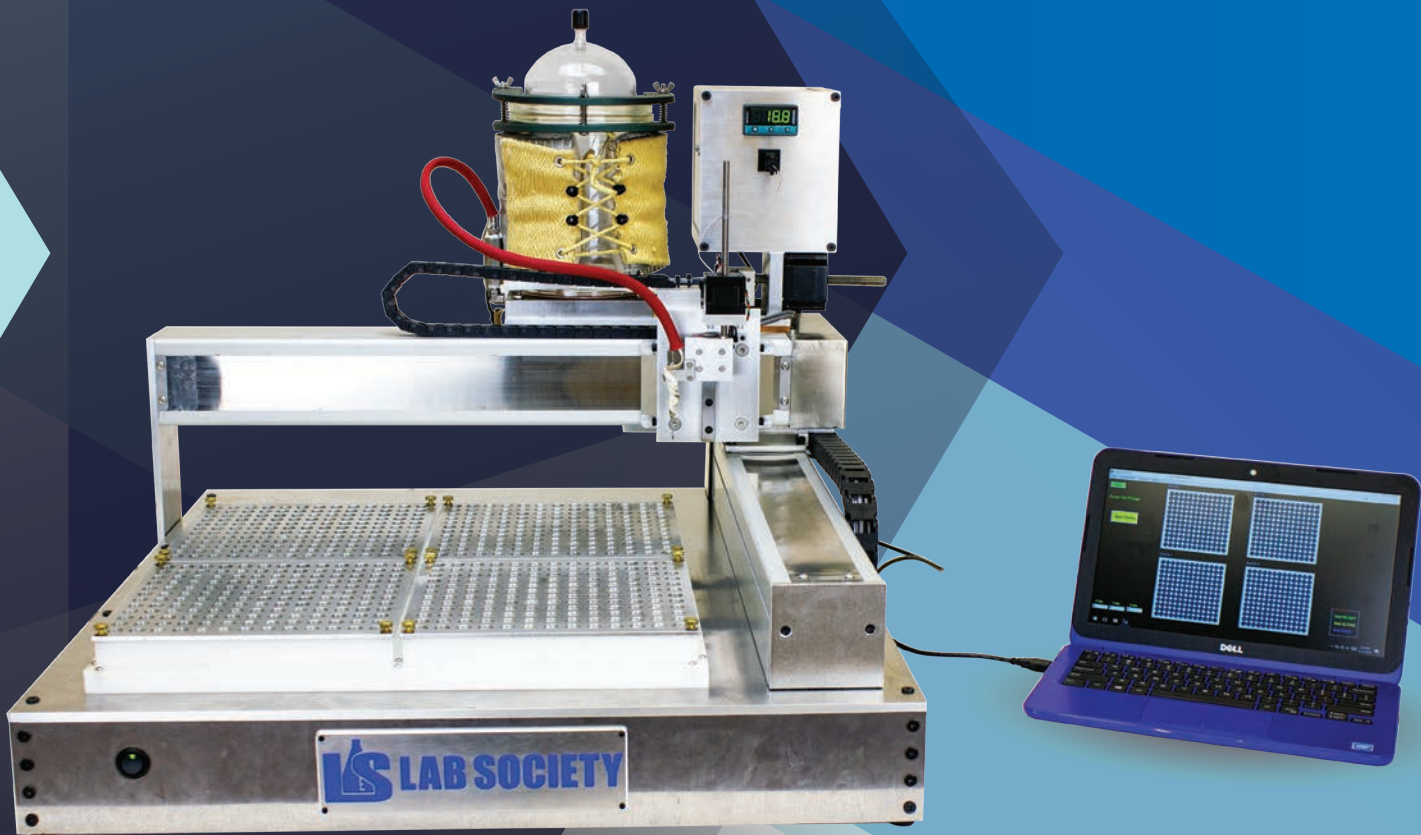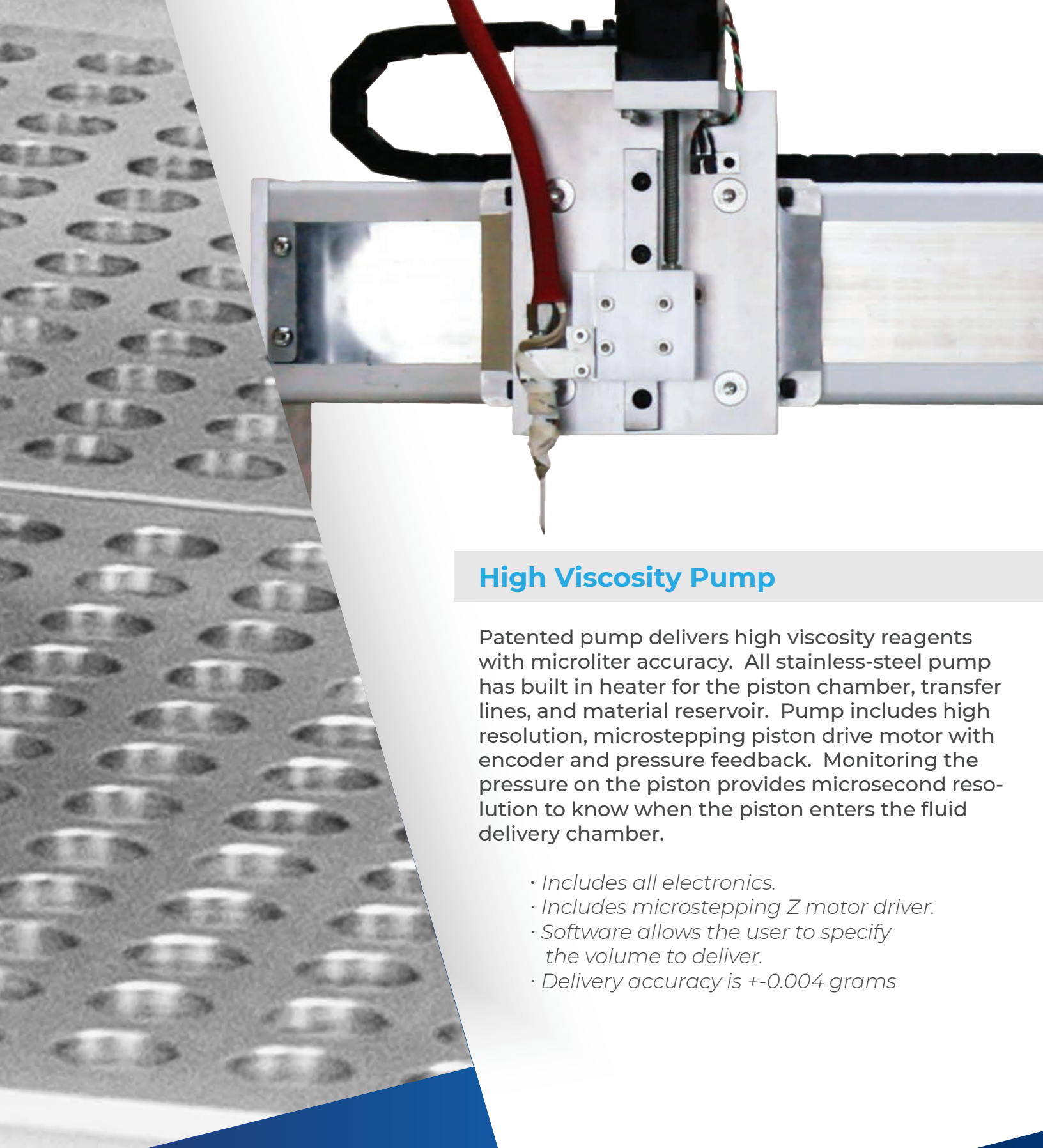# ROBOTIC FILLING WORKSTATION
## *LS-RFWS-E400*

## High Viscosity Pump

Patented pump delivers high viscosity reagents with microliter accuracy. All stainless-steel pump has built in heater for the piston chamber, transfer lines, and material reservoir. Pump includes high resolution, microstepping piston drive motor with encoder and pressure feedback. Monitoring the pressure on the piston provides microsecond resolution to know when the piston enters the fluid delivery chamber.

- *Includes all electronics.*
- *Includes microstepping Z motor driver.*
- *Software allows the user to specify the volume to deliver.*
- *Delivery accuracy is +-0.004 grams*

**Filling Station Price**
Starting at $24,600

## Racks

- Custom milled to fit the user requested cartridge.
- The user must supply 12 samples of the cartridge at the time the robot is ordered. Manufacturer already has specs for sizes of Liberty and C-Cell cartridges.
- Rack dimensions are 12" x 12" and typically fit 144 to 156 cartridges per rack. Includes 4 custom racks.
- Recommend 8 racks total so next set of 4 can be prepped during a run.
- Additional sets of 4 racks can be purchased for $1650 or 1 rack for $415.

LS-RFWS-E400

FILL HALF GRAM CARTRIDGES IN 5-10 SECONDS REPEATEDLY!

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# Specifications

## Key Features

### Speed

- 5-7 seconds per 0.5 mL cartridge max throughput with lower potency or cut oil
- 10 seconds per cartridge using 95% potency distillate (max viscosity)

### Electrical Power Requirements

- 120 VAC, 60 Hz, 8 Amps

### Physical Dimensions

- Length = 27"  x  Width = 25"  x   Height = 24"

## Software (Included)

### Features

- Operating software is written to the user's specifications
- Basic functions of the software allow the user to control all elements of the pump system, including volume dispensed, dispense speeds and system temperatures
- The PC graphical interface allows the user to specify the number of racks or cartridges to fill and provides a real-time graphical interface showing the status of the robot
- Software includes free modifications according to user requests

### Package Includes

- Microsoft Visual Studio Development Environment
- A copy of the robot's original source code
- All drivers for the robot
- Software for remote diagnostics and debugging, including:
  - Serial communications terminal emulator
  - Software packages from all robotic component manufacturers

## Installation

- Laptop Windows PC for robot operation. *(Optional)*
- The PC provided will be a Dell, Lenovo, or HP. Intel Core i5 processor, 15.6" screen, 8GB DDR4, 1 TB hard drive
- Installation, calibration and training available

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