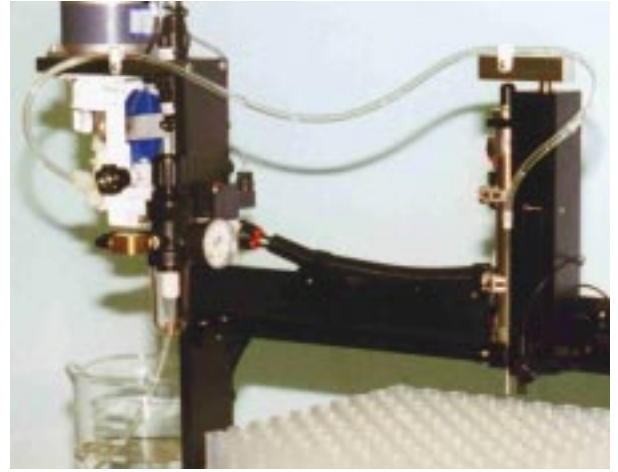
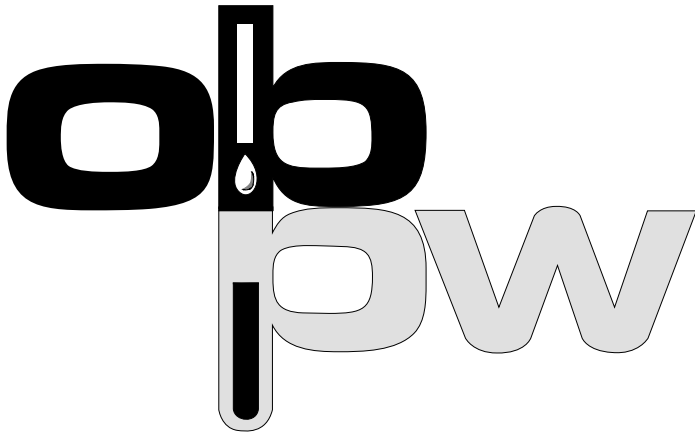


## Custom Automation<sup>^</sup>

- Conveyors and Robotics
- Liquid Handling
- Microplate Processing
- Test Tube Processing
- Custom Design

# Oyster Bay Pump Works, Inc.

78 Midland Avenue • P.O. Box 725 • Hicksville, NY 11802-0725  
Tel 516 - 933 - 4500 • Fax 516 - 933 - 4501 • info@obpw.com • www.obpw.com



## Precision Liquid Dispensers

- **ACCURATE** (cv's < 1% and as low as 0.1%)
- **FAST** (as low as 0.1 second per dispense and up to 30 ml per second continuous flow)
- **EASILY MAINTAINED & EXTREMELY RELIABLE** (24 hour use)
- **GENTLE PUMP MOTION** (moves liquid in pockets enabling pumping of delicate cell suspensions)
- **VIRTUALLY INERT FLUID PATH** (enables pumping acids, bases, solvents)

### SINGLE & MULTIPLE PUMP CHANNELS:

- Any number of pumps
- Commonly or individually controlled
- Multiple pump sizes can operate together
- Pumps can be set to the same or different doses
- Pumps can be assigned the same or different solutions



### CONTROLS:

- Adjustable pump speeds
- Adjustable volumes
- Adjustable strokes per dispense cycle
- Selectable flow direction (forward/reverse)
- Remote cycle start
- Easy integration with conveyors, robotics, or other automation

### OPTIONS:

- Heated fluid path (3 separate heat zones for intake, pump, and discharge)
- Choice of materials used in fluid path
- Recirculation of suspensions
- Repeat cycling with adjustable dwell time between cycles
- Automation interfaces
- International voltages and frequencies

# Integrated Conveyor Systems

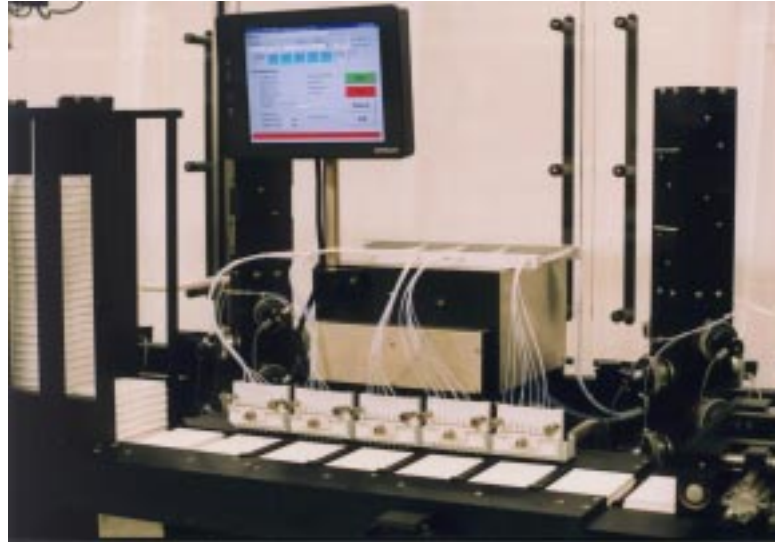
## Capabilities:

- Computer interface
- Process data acquisition
- Liquid dispensing
- Liquid aspiration
- Combined dispense and aspirate
- Combined air and vacuum
- In-line incubations
- Dust removal
- Static elimination
- Lid application
- Plate sealing
- Fill verification
- Bubble detection
- Ink jet printing
- Bar code reading
- Plus much more...

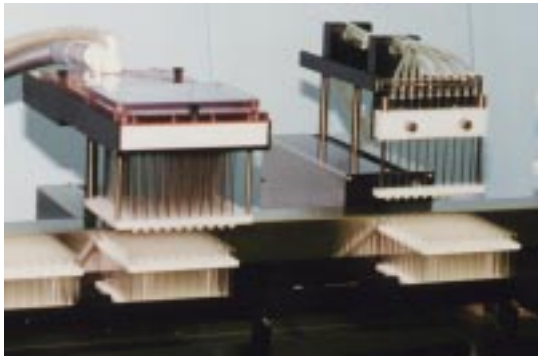
## Applications:

- Diagnostic Test Kit Manufacturing
  - Microplate Coating
  - Test Tube Coating
- Drug Discovery Research
  - Combinatorial Chemistry
  - Ultra High Throughput Screening
- Vial Filling
- Other

## Ultra High Throughput Screening Systems



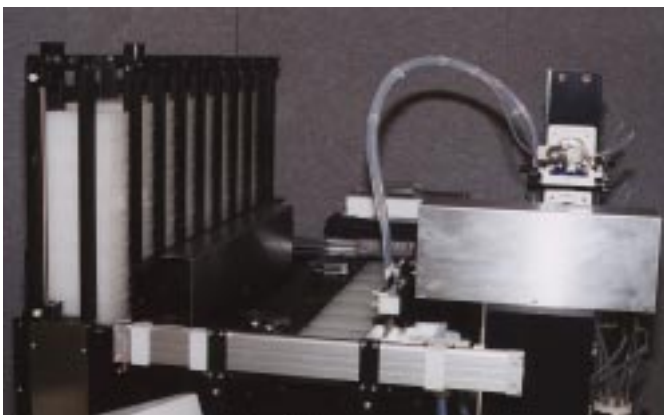
## Test Tube Coating



## Microplate Coating



## Combinatorial Chemistry



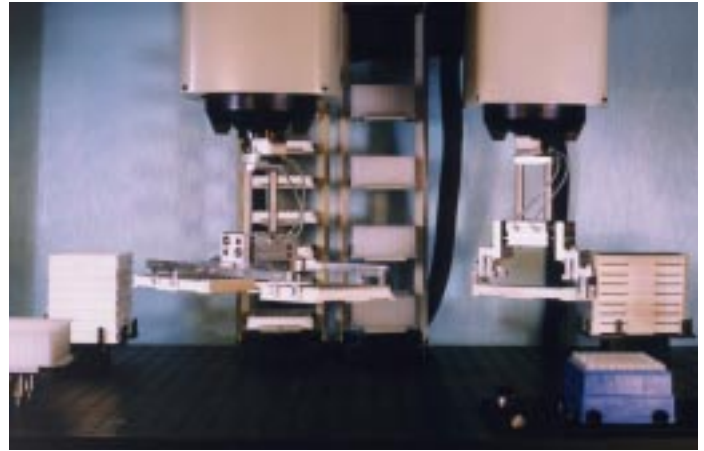
## Integrated Robotic Systems

### Work Spaces:

- 1T Work space: 18" x 36"
- 2T Work space: 37" x 52"
- 4T Work space: 37" x 108"
- Custom sizes also available

### Options:

- Liquid dispensing stations
- Plate washers
- Plate sealers
- Ink jet printing stations
- Bar code readers
- Plate accumulators and feeding systems
- Custom integration of other devices



### Tooling & Fixtures:

- Tool Stands
- Plate Hotels
- Gripper Tools
- Pipettors (single and multichannel)
- Custom

## Custom Designed Systems

We are staffed to design and manufacture a wide variety of custom integrated conveyor and robotic systems. Here are a few examples:

- For biological research, a machine that mass inoculates eggs
- For contact lenses, a machine to dispense liquids for making the lenses and saline solution for packaging
- On the space shuttle, a pump system for pharmaceutical research at zero gravity
- A Grease dispensing system for continuously dispensing grease onto gears
- Fully heated fluid path for dispensing of agar and other products

Utilizing standardized modules, systems are available which can be upgraded to expand with your product from research and development stages to full production. Equipment ranges from a single pump to multiple function systems that can process in excess of 50,000 containers per hour.

## The Company

Since 1979, **Oyster Bay Pump Works, Inc.** has been successfully supplying reliable and cost effective equipment to the diagnostic and pharmaceutical industries. We are confident this experience will enable us to meet your requirements. To order, or for more information, contact us with your application and requirements, and we will provide you with pricing and delivery.