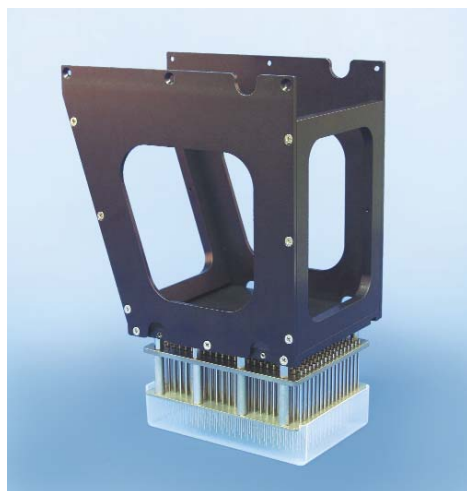




Agilent Automation New Product Highlight

V&P Scientific Pintool Head

V&P Pintool Head for Agilent Liquid Handlers



Pintool Applications

Liquid-to-Liquid Transfers

Transfer small volumes of liquid to and from microtiter plates

High Density Array Creation

Spot onto slides, membranes, agar plates or dry plates

Inoculation or Colony Transfers

Convenient for inoculating Nunc Omni Trays and membranes or use in colony-to-colony transfers on agar or other surfaces

Bravo Automated Liquid Handling Platform and Vertical Pipetting Station



Instruments

Agilent Bravo Automated Liquid Handling Platform

The fastest and most versatile small footprint liquid handling system available

Agilent Vertical Pipetting Station

Industry-leading speed and unparalleled performance for sample handling and liquid-transfer applications

A Sub- μ L Liquid Delivery Solution:

Pintool heads are a common solution for transferring small nL volumes of liquids to and from microtiter plates. Agilent has partnered with V&P Scientific to provide custom pintool transfer heads for the portfolio of Agilent Automation Solutions liquid handlers. When fitted to either the Bravo Automated Liquid Handling Platform or Vertical Pipetting Station, the V&P Scientific pintools allow for volumes anywhere from 3 to 5,000 nL to be delivered to any position on the instrument deck.

Agilent Automation Benefits:

- **Plate Handling:** Most 1536-, 384-, and 96-well microplates, tube racks, and lids.
- **Flexibility:** Devices can be added or replaced to customize this solution with new functionality.
- **Scalability:** Additional instruments can increase capacity and throughput as needed.
- **Intelligent:** Agilent VWorks Automation Control software schedules protocol tasks, incubation steps and reagent order-of-addition for maximum throughput and walk-away time.



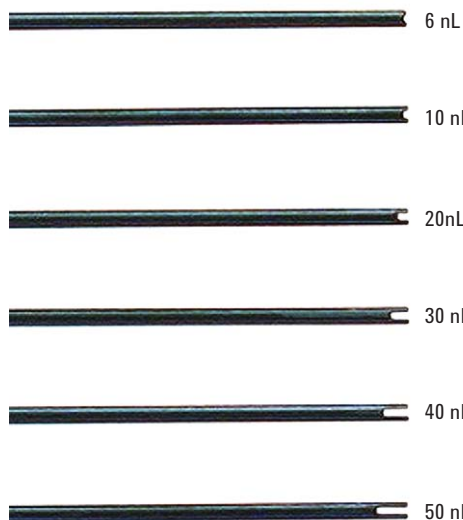
Agilent Technologies

Advantages of V&P Scientific Pintools

Wide range of pin diameters, lengths and delivery volumes-Choice of solid or slotted pins (more consistent transfer when source liquid levels are low or variable)

Available with hydrophobic coating for reduction of nonspecific binding-High quality resulting in reproducible CVs of 5-7%-Significant cost savings due to elimination of disposables

FP1 Slot Pins, 0.457 mm diameter



Configuration Options

V&P Scientific Pintool Heads for Agilent Liquid Handlers can be created in the following formats:

- 1536, 384, 96, 48, and 24
- Delivery Volumes range from 3 nL to 5000 nL

Ordering Information

Custom solutions can be created by contacting a V&P Scientific Representative at sales@vp-scientific.com for help with designing a pintool for virtually any application. Once a pintool has been designed, contact your Agilent Automation Solutions Product Specialist for a quote and delivery times.

Additional Services

All Liquid Handling Instruments include installation and product familiarization along with options to purchase additional services to meet your specific needs.

These options include:

- **Consulting:** Work with a team of experts to determine the best solution for your laboratory.
- **Application Development:** Let our application specialists develop and test system protocols for your applications.
- **More:** Speak with one of our product specialists regarding any additional support you require to ensure our solution meets all of your needs.

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