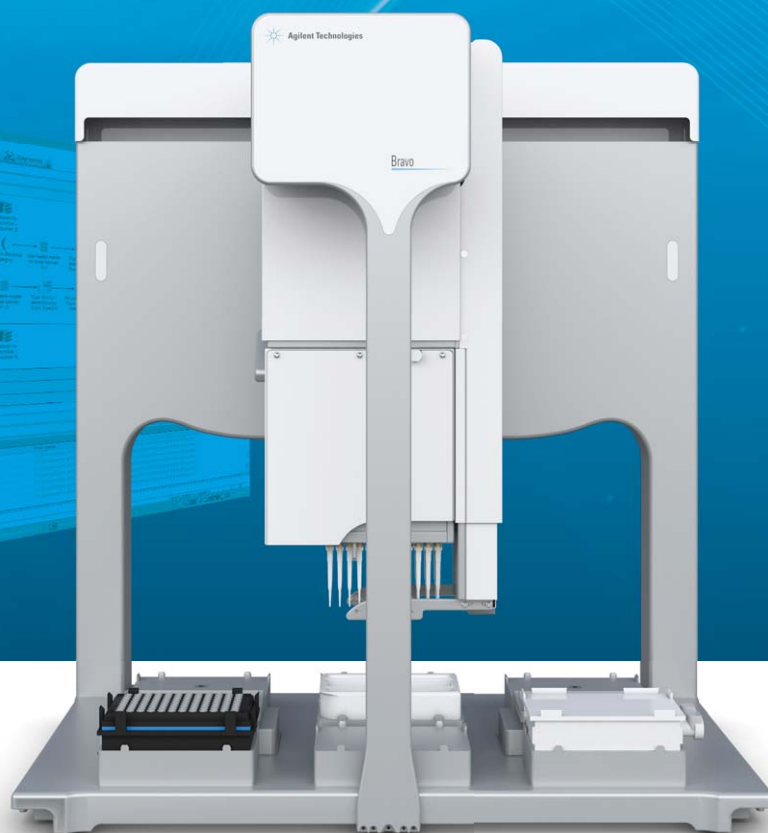
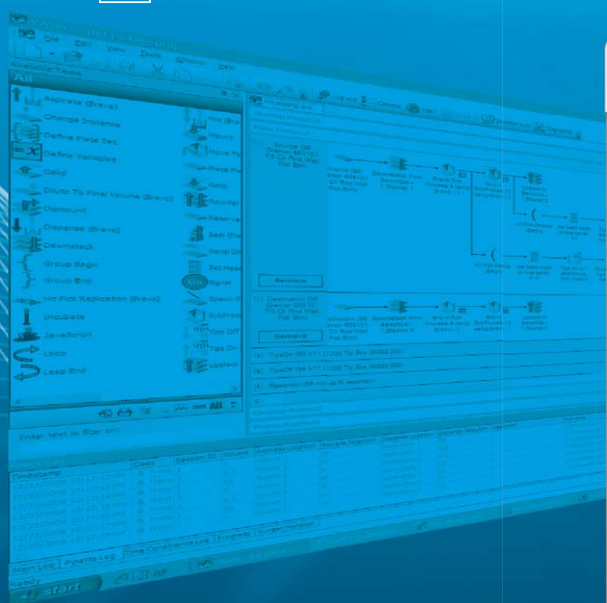




Agilent Bravo Automated Liquid Handling Platform

COMPACT MICROPLATE LIQUID HANDLING MADE EASY

The Measure of Confidence



Agilent Technologies

BOOST PRODUCTIVITY AND INCREASE DATA REPRODUCIBILITY

The Agilent Bravo Platform is a reliable, compact, and versatile liquid handling system with a unique open deck design that facilitates workflow automation and integration. It aspirates and dispenses liquids with high accuracy and precision over a wide volume range from various single-well to full-microplate configurations. With an expanding range of on-deck accessories, the Bravo Platform is also adaptable, increasing throughput and walkaway time for the full spectrum of laboratory applications.

Precise Pipetting

Achieve greater accuracy and reproducibility

- Single-well to full-plate transfers support automated single-well, row or column-wise pipetting for serial dilutions, and more
- Expanded volume range simplifies automation across applications
- Swappable liquid handling heads specific for disposable tips, fixed tips, pin tool, or AssayMAP technology deliver flexibility
- Optional plate gripper moves labware for increased efficiency

Innovative Design

Adaptable to all your applications

- 9 on-deck positions for plates, tips, accessories, and more
- Open design facilitates deck access, and integration with plate handlers and robots
- Hood-friendly size, with additional compact SRT-version for very restricted locations
- Labware standards compliant (meets the standards ANSI/SBS 1-2004 through ANSI/SBS 4-2004)

Robust, Feature-rich Software

Supports new and advanced users

- Drag and drop tasks for simplified protocol startup
- Form overlay enables the creation of an easy-to-use graphical interface for novice users
- Built-in 21 CFR Part 11 compliance features for traceability

Available in two
space-saving models

High-accuracy
pipette heads

Optional labware gripper

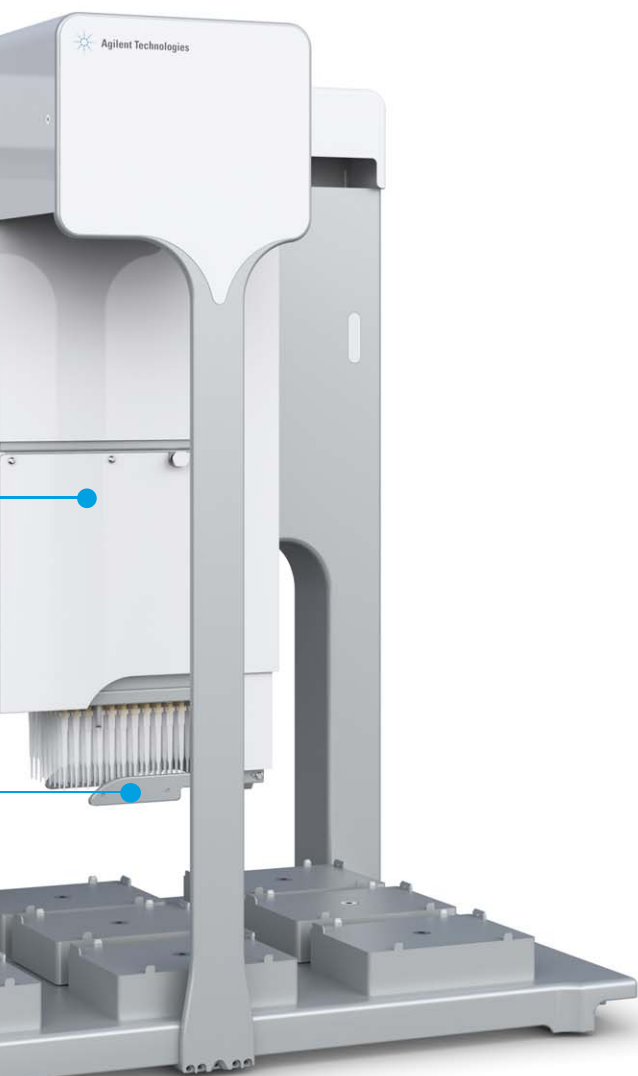
On-deck accessories

9-deck positions



COMPLETE APPLICATION VERSATILITY

The Agilent Bravo Platform is a flexible liquid handling solution for the full range of life science applications. It easily automates new or existing workflows to increase throughput, walkaway time and data reproducibility.



Bravo with Gripper: G5523A#003

GENOMICS

- Sample isolation
- Template preparation/amplification
- Next-gen sequencing
- Comparative genomic hybridization
- Gene expression profiling

PROTEOMICS

- Protein purification and quantitation
- Peptide mapping
- N-glycan analysis
- Biomarker validation

SCREENING

- High-throughput screening
- Compound library management
- ELISA and related immunoassays
- Hybridoma screening and phage display

CELL BIOLOGY

- Cell-based assays
- Cell culture maintenance

ADME/TOX

- Cell permeability studies:
Pampa & Caco-2
- Metabolic stability testing
- Cytotoxicity testing

A VARIETY OF LIQUID HANDLING TECHNOLOGIES TO MEET YOUR APPLICATION NEEDS

The Bravo Platform allows you to achieve high performance liquid handling precision with 7 easy-to-exchange liquid handling heads using 3 different liquid handling technologies.

Air Displacement		Hanging Drop	Positive Displacement
Disposable-Tip Pipette Heads	Fixed-Tip Pipette Heads	Pin Tools	AssayMAP Head
<ul style="list-style-type: none"> Two, 96-well models cover a range from 300 nL to 250 μL 96LT 96-Well (250uL) G5498B#042 96ST 96-Well (70uL) G5498B#041 384-well model dispenses from 300 nL-70 μL 384ST 384-Well (70uL) 498B#043 Uses disposable tips to prevent carry over and contamination Aspirates and dispenses to wells, rows, columns, arrays, and full plates 	<ul style="list-style-type: none"> 96 and 384-well models for transfer to 96, 384, and 1536-well plates 96F50 96-Barrel (50uL) G5498B#044 384F50 384-Well (50uL)G5498B#045 Volume range of 20 nL to 50 μL Washable fixed stainless steel needles 	<ul style="list-style-type: none"> Custom-designed to your specifications Custom Hardware G5420A Choose 24, 48, 96, 384, and 1536-pin models Deliver 3 nL to 5000 nL to all wells simultaneously 	<ul style="list-style-type: none"> 96-well format with volume range of 2-250 μL 96AM G5498B#046 Uses AssayMAP micro-chromatography cartridges for automated sample preparation of biologics for antibody purification, N-glycan sample prep and peptide sample prep for mass spec analysis. <p>More information on Agilent AssayMAP technology at: www.agilent.com/lifesciences/assaymap</p>



Precision and Accuracy

When used with Agilent-certified pipette tips, performance for the disposable tip head, over a volume range of 0.3-250 μ L using multiple heads, is typically 5 % CV and 10 % relative inaccuracy, using DMSO-based solutions. For more information about Agilent Certified Pipette Tips please visit: www.agilent.com/lifesciences/pipettetips.

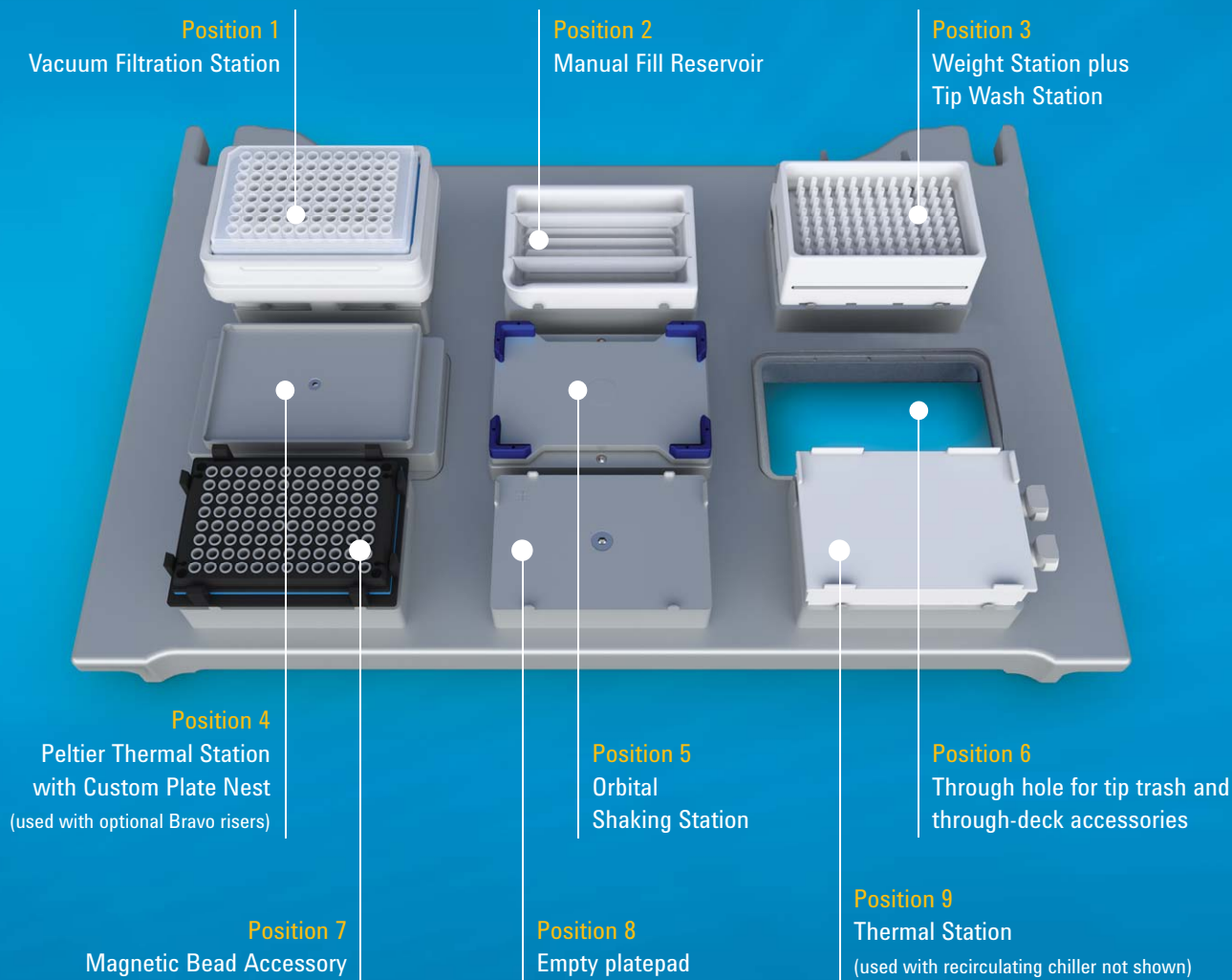


Microplate-centric Liquid Handling

Used with any of the disposable tip pipetting heads, the Set Head Mode feature of the VWorks Automation Control Software allows you to aspirate or dispense into one sample well, rows, columns, an array of wells or the full plate.

MORE THAN 60 ACCESSORIES ENABLE APPLICATIONS

The Bravo Platform features 9 on-deck plate positions that accommodate over 60 accessories. Details on all Bravo accessories, and where they may be located on the Bravo Platform deck, can be found in the Bravo Accessories Catalog, Agilent publication number 5991-0369EN.



Bravo Light Curtain

Designed for Safety and Compliance

The Bravo Platform Light Curtain assures compliance with regional safety requirements. If an object disrupts the light beams across the front of the device, the safety interlock circuit disables the pipette head motors.

AN INTEGRATION-FRIENDLY DESIGN

The Bravo Platform's small footprint and open access deck enables flexible options for automating all your applications. Agilent offers scalable solutions from the standalone Bravo Platform to integrated workstations, and sophisticated containment-based systems that can be customized to your specifications.

SCALABLE

Standalone

Increase the automation of your existing application workflows by adding a standalone Bravo Platform for automated liquid handling.



Agilent Bravo Automated Liquid Handling Platform (G5523A)

Workstations

Agilent offers standard application-specific solutions as well as custom solutions. Both integrate liquid handling, robotics, and plate management instruments.



Agilent NGS Option B Workstation (G5522A) automates sample preparation for next-gen sequencing.



Agilent Encore Multispan WorkStation

Systems

The BioCel is a custom-designed, integrated system in a containment cabinet that incorporates the Bravo Platform or multi-instrument workstations to automate complex workflows.



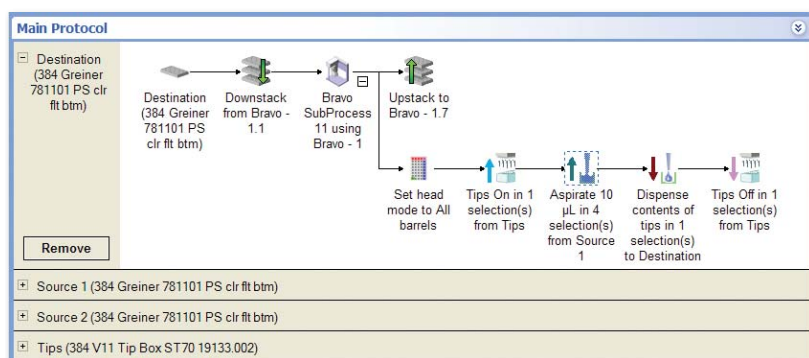
Agilent BioCel Containment-based Systems

"We have found the Bravo very effective in automating magnetic bead-based affinity capture of peptides for mass spectrometry as well as a range of associated precision liquid handling tasks. The new AssayMAP technology has tremendous potential for further accelerating the SISCAPA methodology"

- **LEIGH ANDERSON**, SISCAPA ASSAY TECHNOLOGIES, INC., WASHINGTON, D.C. USA

ENTERPRISE-LEVEL SOFTWARE

VWorks Automation Control Software integrates diverse devices (140+ driver library) into a cohesive, integrated system that ensures maximum throughput and optimal resource utilization.



The screenshot shows the 'Plate Stamping Form' in VWorks. It includes fields for: Select the date run: (10:57:11 01-10-2011), Select the project number: (GPCR001), Select your user name: (REBAHN), Select the plate type: (Hom: 96CostarPS, Daughter: 96CostarPS), Select the protocol to run: (empty), Enter the number of mother plates: (empty), Enter the number of daughter plates: (empty), Enter the aspirate volume: (100), Enter the dispense volume: (10). At the bottom, there are buttons for 'GO!', 'Pause', and 'Full Screen on/off', along with a 'Elapsed Time: 00:00:00' display.

Bravo applications can be simplified with a user-friendly interface which enables the novice user to operate it with ease. Custom forms simplify the execution of complex protocols and are ideal for multi-user environments.

Benefits of Agilent VWorks Software

An Intuitive Graphical User Interface—enables the novice user to operate it with ease.

Drag and Drop Tasks—graphical icons are selected and grouped to represent the sequence of tasks in your experiment.

Event Driven Automation Control—can run multiple experiments in parallel for maximum resource utilization and throughput.

Scalable—single application drives all levels of automation (standalone instruments, systems, 3rd party devices) with a consistent user interface that reduces training costs.

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