

Biomek NGeniuS

AUTOMATED NGS WORKSTATION... SIMPLIFIED

IT'S NOT JUST SMART. IT'S INGENIOUS.



You asked for an accurate, easy to use, cost-effective, NGS sample prep system with built-in error reduction and the flexibility to run an array of library preparation kits from multiple vendors—without requiring in-depth programming knowledge, and now it's here.





Introducing Biomek NGeniuS Workstation

The **Genius** is in its **Total Workflow Solution**



1. Flexible application selection

As part of our comprehensive service agreement, the Biomek NGeniuS Workstation provides a wide range of complimentary demonstrated methods from a variety of reagent manufacturers, including:

DNA Sequencing

- Whole genome
- Targeted re-sequencing (Amplicon & Hybridization Capture)

RNA Sequencing

- mRNA
- Total RNA
- Targeted RNA (Amplicon & Hybridization Capture)



2. Application control

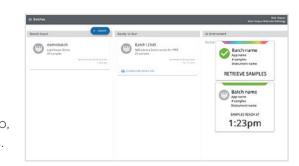
Control user access to applications with a simple authorization process (if required). Ensure that only authorized users have access to non-lab validated applications.



3. Work-from-anywhere batch set up*

Using the Biomek NGeniuS Portal software, set up your batch run when and where it's most convenient for you.

Whether working from home, office, or benchtop, you can program batch sizes from 4-24 samples.







4. Reagent preparation made easy

Once you select the application and enter the number of samples, the Biomek NGeniuS software creates a Work Aid, which includes:

- Reagent list needed for the run
- Volume requirements for each reagent
- Instructions on how to prepare and load reagents

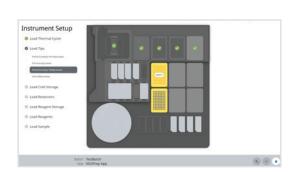
The Work Aid saves time and effort while ensuring reproducibility during reagent preparation.



5. Error-reduced instrument setup

Sophisticated optical analytics combined with the head-up display give you real-time feedback on labware placement, virtually eliminating loading errors.

Now you can allow less-experienced operators to run complex applications with confidence.





6. Remote system monitoring

The 360° multicolored, pattern-encoded light bar shows current instrument status.

Not within visual range? The Biomek NGeniuS Portal software allows you to monitor the system status from any computer.



7. Simplified sample processing

The Multi-functional Reaction Vessel (RV) combines three consumables into one, reducing time spent on labware inventory management:

- Sample input plate
- Thermal cycling plate
- Clean-up plate

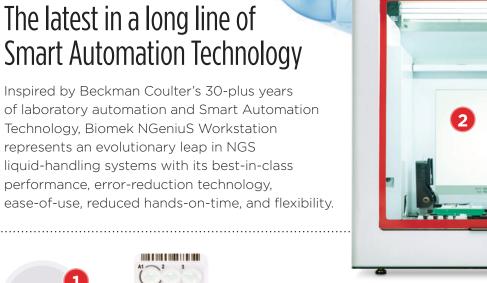
Track your samples—with up to 100 million unique **RV barcodes**—throughout the application run.



Biomek NGeniuS Workstation

Smart Automation Technology

Inspired by Beckman Coulter's 30-plus years of laboratory automation and Smart Automation Technology, Biomek NGeniuS Workstation represents an evolutionary leap in NGS liquid-handling systems with its best-in-class performance, error-reduction technology,









BECKMAN COULTER

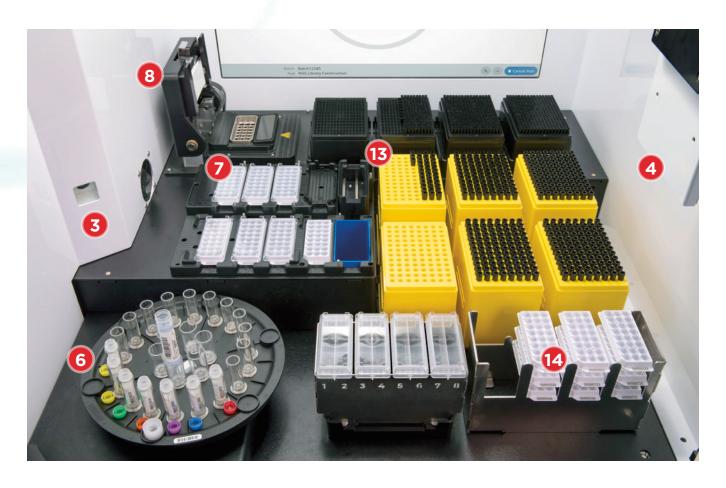


Error reduction

- Dynamic DeckOptix system provides software-guided labware placement and confirmation
- 2 Head-up Display ensures mission critical information is in sight
- 3 Reagent Carousel Auto ID confirms the correct reagents are on board for the samples being processed
- 4 Multi-channel Liquid Level Sensing aids in the detection of insufficient reagents. alerting the operator before it becomes a processing issue
- 5 Sample Tracking eliminates the worry of mixing up samples when running in pre- and post-PCR lab environments

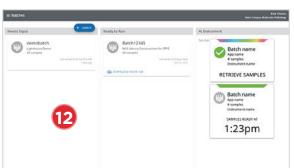
Less hands-on-time

- 6 Reagent Carousel reduces the need to manually transfer reagents and automates most reagent kits designed for manual use
- 7 Temperature-controlled Reagent Storage protects reagents from thermal degradation and allows you to run end-to-end chemistries
- 8 Integrated Thermal Cycler extends walkaway time
- 9 Multi-functional Pipetting Pod
 - Pipetting Range 1 to 1000 µL
 - Selective Tip Type ensures the right tip for the right volume without manual intervention
 - Select Tip 1 to 8 tips for pipetting efficiency
 - Labware Transport enables longer walkaway time
- **10 UV-C Light** standard on the system



Easier to use

- Software Navigation Dial makes system programing as simple as turn and select
- Biomek NGeniuS Portal Software* allows setup and monitoring of batch runs from wherever it's most convenient for you
- 13 Partial Tip Box Use eliminates manual tip transfers and/or wasting partially used tip boxes
- Multi-functional Reaction Vessel provides 3-in-1 functionality and less inventory management
- 15 Multicolor Status Light provides 360° line of sight system status



Flexible design

- ✓ Dynamic Sample Batch Size accommodates batch sizes of 4 to 24 samples
- ✓ Complimentary Application Library is designed to evolve with your changing chemistry needs
- ✓ Network Enabled Scalability enables you to seamlessly set-up and run multiple instruments from your Biomek NGeniuS portal.
- ✓ Continuing Application Development ensures your investment is protected for the foreseeable future





The **Genius** is in its **Simplicity**

The unique instrument design and software functionality of the Biomek NGeniuS Workstation not only make it easy to operate, but advanced programing skills are not necessary to set up an application and complete a run.

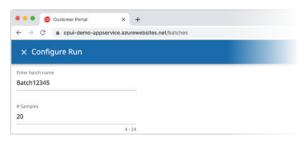
Set up and run a batch in 6 easy steps...

On the Biomek NGeniuS Portal software:

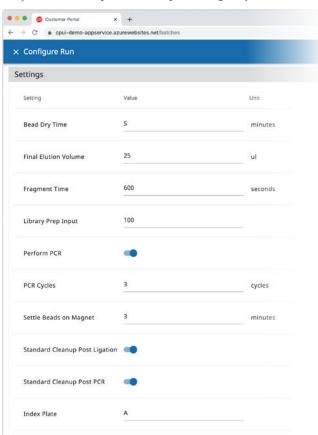
Step 1 Select an application

○ Customer Portal → C a cpui-demo-a	× + ppservice.azurewebsites.net/batches	
	ppservice.azurewebsites.riet;batches	
× Select App		
Approved Apps		
Approved Apps NGS Library Con	nstruction	

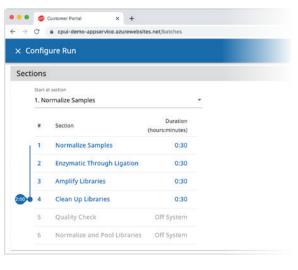
Step 2 Enter batch name and number of samples from 4 to 24



Step 3 Make any necessary setting adjustments



Step 4 Select the stop point that fits your schedule

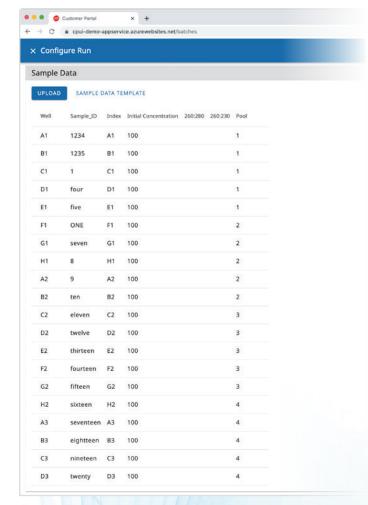


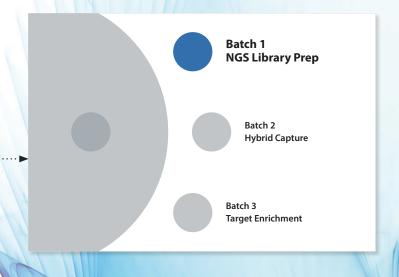
On the instrument:

Step 6 Use the dial on the instrument to select the batch and you are ready to run



Step 5 Upload your Sample Data and select 'Ready to Run'









Biomek NGeniuS Workstation

Small footprint, unimaginable power and performance

Part Number	Description	Power Requirements	Weight	Dimensions (W x D X H)
C62705	Biomek NGeniuS Workstation	10 A, 100-240 V, 50/60 Hz	131 lb (59.5 kg)	29 in x 31 in x 32 in (73.2 cm x 78 cm x 81 cm)

Biomek NGeniuS Consumables

The most critical point of contact

The Biomek NGeniuS Workstation is optimized to perform as a complete system, which is why only Biomek consumables from Beckman Coulter Life Sciences are validated and approved for use.

Part Number	Description	Quantity
C62705	Biomek Reaction Vessel, 24 well	30/Box
C62706	Biomek Lid, 24 well	30/Box
C62707	Biomek Bulk Reservoir, 20 mL/section	30/Box
C59585	Case, Tips, 1025 µL, Conductive, Filtered, 480 Tips	5 Racks/Box (96 per rack)
C62712	Case, Tips, 70 µL, Conductive, Filtered, 3840 Tips	10 Racks/Box (384 per rack)
C70672	Case, Biomek 1025 µL Tip Box, Empty, 10 Racks	10 Racks/Box
C70673	Case, Biomek 70 µL Tip Box, Empty, 10 Racks	10 Racks/Box
C70665	Biomek Seal Plate, 24 well	20/Box



© 2021 Beckman Coulter, Inc. All rights reserved. Beckman Coulter, the stylized logo, and the Beckman Coulter product and service marks mentioned herein (including Biomek and Biomek NGeniuS) are trademarks or registered trademarks of Beckman Coulter, Inc. in the United States and other countries.

All other product names and brands are properties of their respective owners.

Biomek Automated Workstations are not intended or validated for use in the diagnosis of disease or other conditions. In development, performance characteristics have not been validated.

For Beckman Coulter's worldwide office locations and phone numbers, please visit "Contact Us" at beckman.com 2012 476 GFN