

 **myra**

Liquid Handling System

Performance | Size | Simplicity

 **bms**
bio molecular systems

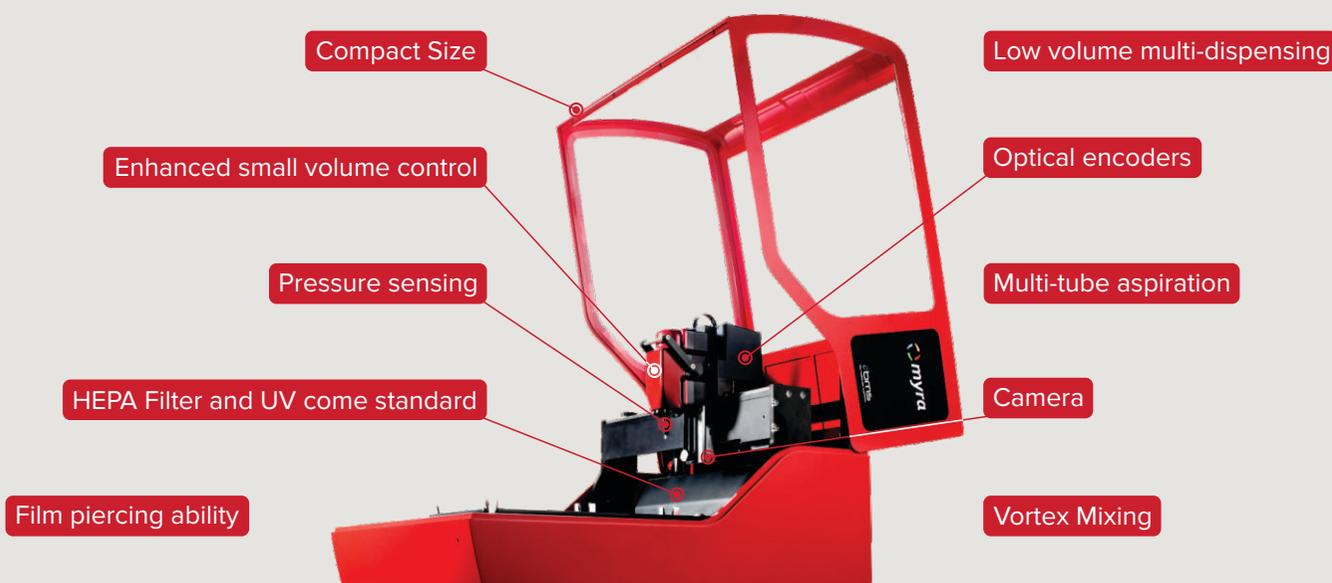
Made for extraordinary life



Liquid Handling System

Your solution for precision and efficiency in pipetting work flows. Designed to deliver unmatched accuracy and reliability for your most demanding applications.

Open your eyes to new possibilities



State of the Art Hardware

Closed loop axis control using optical encoders with advanced path planning and error detection.

High precision pipette tip positioning for small aperture tubes such as 1536 well plates.

Pressure based liquid level sensing that can monitor the aspirate and dispense process for errors. No need for conductive tips!

Long life UV LED, easy replacement HEPA filter system and closed waste tub reduce the risk of contamination.

Compact Design

Each Interchangeable pipette head contains its own calibration data and controller. Swap and go.

Zero downtime for calibration.

Dispense 1 – 50 μ L with exceptional accuracy and precision. Especially for volumes $< 5 \mu$ L.

Using 384 well pipette tips means you swap out tip racks less often.

Integrated ejection and closed waste container.



At only 10 kg and with a footprint of less than 1700 cm² Myra is half the size of other in class liquid handling systems.

Applications



qPCR • Mic • 96 • 384 • RG
dPCR • Bio Rad® • Stilla® • Qiagen®



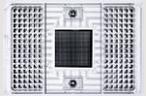
Cell culture media prep



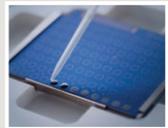
NGS • Library prep • mag cleanup • size selection • normalisation • pooling



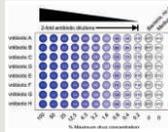
Kinase Assay prep • ATP-Glo™ • TR-FRET



Microfluidic Prep • BioMark™ IFC Dynamic Array



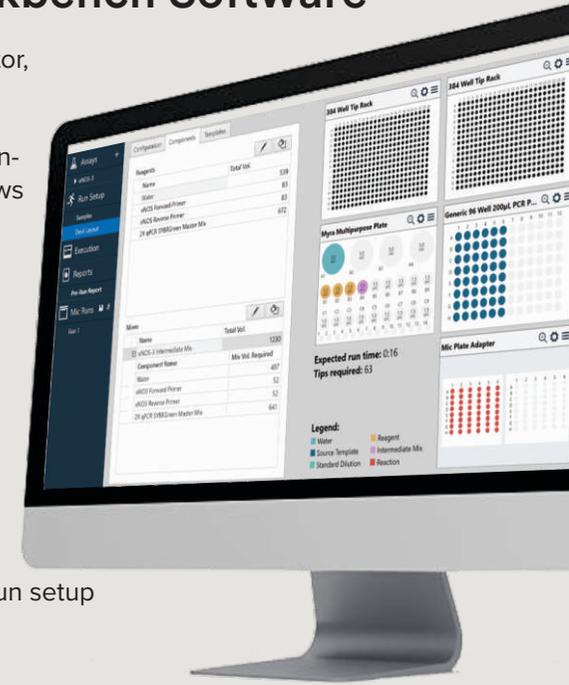
MALDI-TOF MS prep • Bruker® • Shimadzu®



Microbiology • Min. inhibitory concentration • microscopy prep.

Simplicity with Workbench Software

Effective software should be a facilitator, not a dictator, of your work. While streamlining operations, Workbench maintains flexibility by enabling Python-based scripting to tailor your work flows to Myra. Moreover, its full integration with the Mic qPCR cyclers ensures seamlessness.



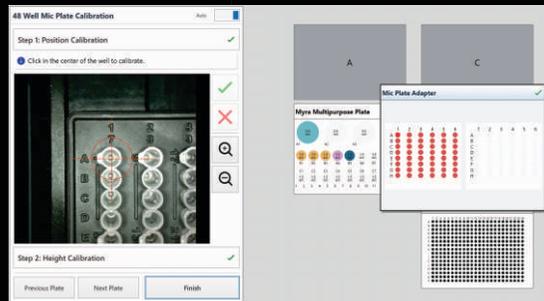
- Create protocols
- Replicates
- Normalization
- Pooling
- Cherry picking
- Complex dilutions
- CSV file import
- Combine sample preparation with run setup
- Multiple plate types per destination
- Expansive consumable library

Vision System with AI

The first pipetting robot that can see!

- Single click plate calibration.
- Tip, tube and plate identification.
- Missing tube and closed cap detection.

- Future developments include:
- Automatic calibration verification.
 - Barcode reading.
 - Real-time pressure feedback for bubbly and viscous reagents.



Use the camera to precisely and easily calibrate plate and tube positions. Click and set.

Accessories

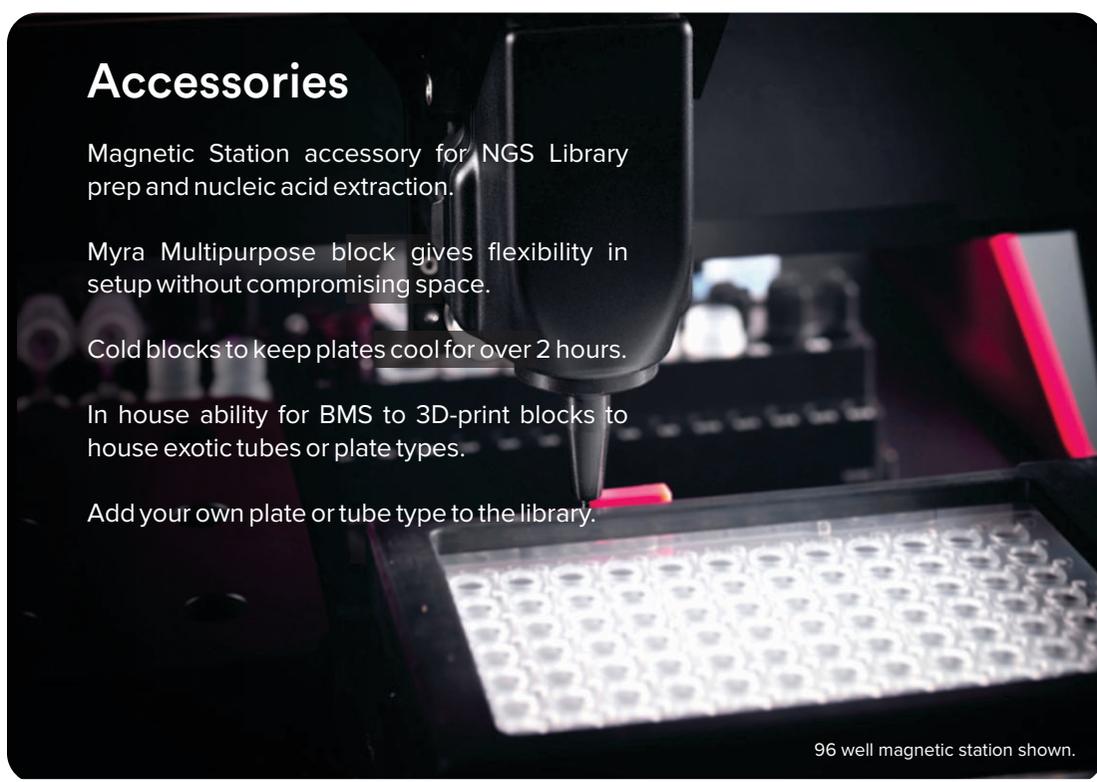
Magnetic Station accessory for NGS Library prep and nucleic acid extraction.

Myra Multipurpose block gives flexibility in setup without compromising space.

Cold blocks to keep plates cool for over 2 hours.

In house ability for BMS to 3D-print blocks to house exotic tubes or plate types.

Add your own plate or tube type to the library.



Specifications



460 mm 10 kg



360 mm



310 mm
(610 mm lid open)

Performance	Position control	Closed loop, 100 μ m resolution
	Level detection type	Pressure sensing
	Calibration	High precision camera
	Strategy	Single or multi-dispense

Communication	Connection type	USB 2.0
	Min. PC requirements	Intel Core i5 or equivalent 8 GB RAM, 1 GB disk space 1366 x 768 display

Environment	Temperature range	18 - 30°C
	Humidity range	20 - 80%

Pipette	Volume	1 - 50 μ L	
	Tips per rack	384	
	Precision	1 μ L	5% CV
		5 - 50 μ L	1% CV
Accuracy	1 μ L	\leq 10%	
	5 - 50 μ L	1%	

Contamination control	Tip disposal	Internal enclosed waste tub
	UV decontamination	High intensity 70 mW 280 nm UV LED
	HEPA air filtration	99.98% at 0.3 μ m

Designed and manufactured in Australia by



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