

AutoMATE™ 96

Microplate Pipetting Workstation

Spend more time on your research... AutoMATE your pipetting.

Intuitive
programming
and control

Process 96 or
384 well plates

Automated tip
loading and
ejecting



Fill 96-well
plates in
seconds



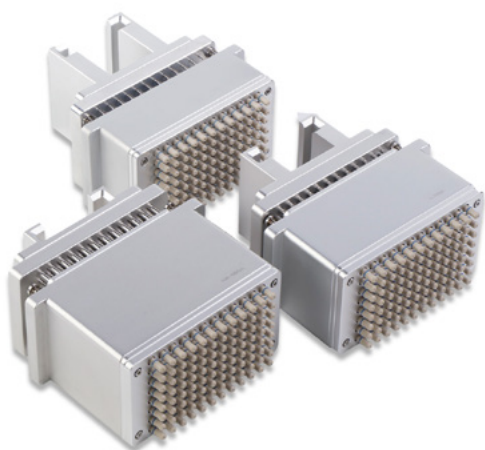
Eliminate hand
strain injury

- › Fast and accurate 96-channel pipetting
- › Accepts 96/384 well microplates, PCR plates and reservoirs
- › Touch-screen tablet for programming & operation
- › 4-position motorized platform
- › Exchangeable pipette heads (1-20µL, 5-200µL, 100-1000µL)

The **AutoMATE™ 96** from Accuris Instruments is a fully automated, high throughput liquid handling workstation that improves productivity when filling microplates. Capable of dispensing up to 96 channels simultaneously, the **AutoMATE™ 96** significantly reduces the processing time and errors associated with manual pipetting.

The included tablet features an intuitive app for programming and operation. Unlike many 96-well pipetting stations, the **AutoMATE™ 96** is “hands-free”, with motorized tip loading/ejection and a four position, automated, sliding platform that precisely aligns the tips with the appropriate microplate/reservoir. Once programmed, the instrument is capable of running protocols to completion without any user input.

Three interchangeable heads allow for a pipetting range from 1.0µL to 1000µL. The **AutoMATE™ 96** is compact enough to fit onto a standard lab bench or into a biosafety cabinet.



Interchangeable heads for 1-20µL,
5-200µL or 100-1000µL



Easy replacement of Pipetting Head

Pipetting Modes

Standard Pipetting: Aspirating and dispensing reagents by hand is labour-intensive and error prone. With the **AutoMATE™ 96**, reagents can be aspirated and dispensed automatically, ensuring accurate and precise transfer to and from microplates or reservoirs.

Multi-Dispensing (Repeat Pipetting): Filling multiple microplates manually is a time consuming process that can lead to hand fatigue and repetitive stress injuries. The multi-dispensing function automates the filling process and accomplishes the task quickly without introducing hand strain or fatigue.

Mixing: Mixing reagents by hand is strenuous and can be inconsistent. With the **AutoMATE™ 96**, mixing can be performed automatically with adjustable speeds, ensuring consistency.

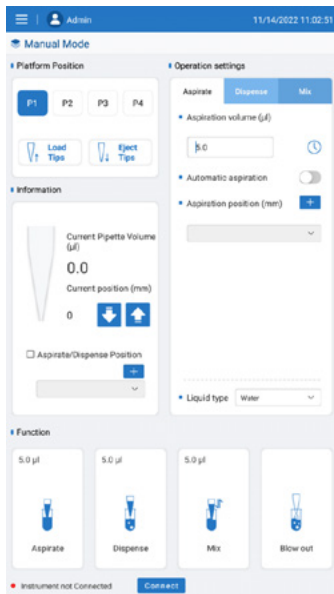
Reverse Pipetting: When the accuracy of pipetting volume is critical, the **AutoMATE™ 96** can be set to reverse pipetting mode. This technique greatly improves accuracy & precision with small volumes of biological fluids.

Secondary-Dispensing (Plate Filling): Many protocols and applications call for filling a plate with multiple samples or reagents. With the **AutoMATE™ 96** multiple reagents can be aspirated and dispensed into the same microplate. For improved results, each dispense can be programmed to include a mixing step.

Serial Dilutions: Performing serial dilutions via manual methods is labour-intensive and error prone. Errors in this process will amplify subsequent dilutions as the process continues. With the **AutoMATE™ 96**, serial dilutions can be performed automatically and error free.

Software and Programming

Two operating modes are available and can be selected per the user's preference.



Manual Mode

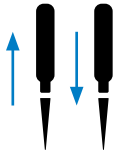
Perform operations quickly & efficiently simply by selecting each function individually.

Manual functions:

- › Load tips
- › Eject tips
- › Aspirate reagents Dispense reagents Mix reagents
- › Blow out reagents

Fully Automated Tip Loading and Ejection

Motorized tip loading and ejection provides hands-free, consistent tip loading throughout all 96 wells.



Broad Labware Compatibility

All brands of microplates and reservoirs meeting SLAS/ANSI formats are compatible for use with the **AutoMATE™ 96**. Included plate adapters allow 384 well microplates and PCR plates to be used.



Automated Program Mode

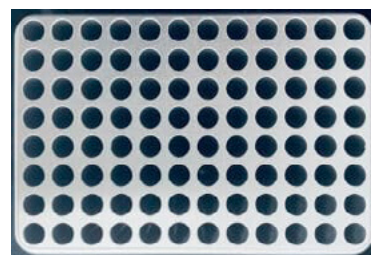
Create a protocol made up of multiple steps in succession. This interface allows for complex protocols to be run from tip-loading through completion with the touch of a button.

Programmable steps:

- › Load/Eject Tips
- › Aspirate/Dispense reagents Perform serial dilutions
- › Rinse tips
- › Repeat a cycle
- › Pause after a certain step



384 Well Microplate Adapter



PCR Plate Adaptor

AutoMATE™ 96 Specifications

Display	8-inch color touch screen tablet (included)
Aspirate/Dispense volume	1-1000µL (depending on pipetting head)
Platform capacity	4 (tip racks/plates/reservoirs)
Channels	96 individual pistons
Pipetting technology	Air displacement
Compatible plate formats	96/384 well microplates, shallow/deep well plates, PCR plates
Communication ports	USB ports for importing/exporting
Voltage input	100-240V
Power	100W
Weight	32.6 kg
Dimensions (WxDxH)	69.0 x 35.0 x 67.3 cm / 27.2 x 13.8 x 26.5 in.

Pipetting Head Specifications

	032-MP9600-20PH (1-20µL)	032-MP9600-200PH (5-200µL)	032-MP9600-1000PH (100-1000µL)
Accuracy	≤±12 % at 1µL	≤±5 % at 5µL	≤±2.5 % at 100µL
	≤±5 % at 2 µL	≤±2 % at 20µL	≤±0.4 % at 500µL
	≤±1 % at 10µL	≤±1 % at 100µL	≤±1 % at 1000µL
	≤±1 % at 20µL	≤±1 % at 200µL	
Precision	≤10 % at 1µL	≤3.5 % at 5µL	≤1.25 % at 100µL
	≤5 % at 2µL	≤1.5 % at 20µL	≤0.4 % at 500 µL
	≤1 % at 10µL	≤0.8 % at 100µL	≤0.4 % at 1000µL
	≤0.8 % at 20µL	≤0.4 % at 200µL	

Ordering Information

Product Code	Description
032-MP9604	AutoMATE 96 Microplate Pipetting Workstation (pipetting head not included), 15V
032-MP9600-20PH	Pipetting Head, 1-20µL
032-MP9600-200PH	Pipetting Head, 5-200µL
032-MP9600-1000PH	Pipetting Head, 100-1000µL
032-MP96-T20-LR	AutoMATE Pipette tips, racked 96 well, 20µL Low Retention
032-MP96-T20-LRFS	AutoMATE STERILE Pipette tips, racked 96 well, 20µL Filtered, Low Retention
032-MP96-T200-LR	AutoMATE Pipette tips, racked 96 well, 200µL Low Retention
032-MP96-T200-LRFS	AutoMATE STERILE Pipette tips, racked 96 well, 200µL Filtered, Low Retention
032-MP96-T1000-LR	AutoMATE Pipette tips, racked 96 well, 1000µL Low Retention
032-MP96-T1000-LRFS	AutoMATE STERILE Pipette tips, racked 96 well, 1000µL Filtered, Low Retention

Applications

- PCR/qPCR setup in PCR plates
- Cell culture prep, media change
- Reagent addition
- Replication of microplates
- 384 well plate set up (special adapter included)
- Preparation of cell-based assays
- ELISA preparation (plate coating, washing, aspirating, master mix preparation)



AutoMATE Pipette tips, racked 96 well, 200µL Low Retention



AutoMATE STERILE Pipette tips, racked 96 well, 200µL Low Retention