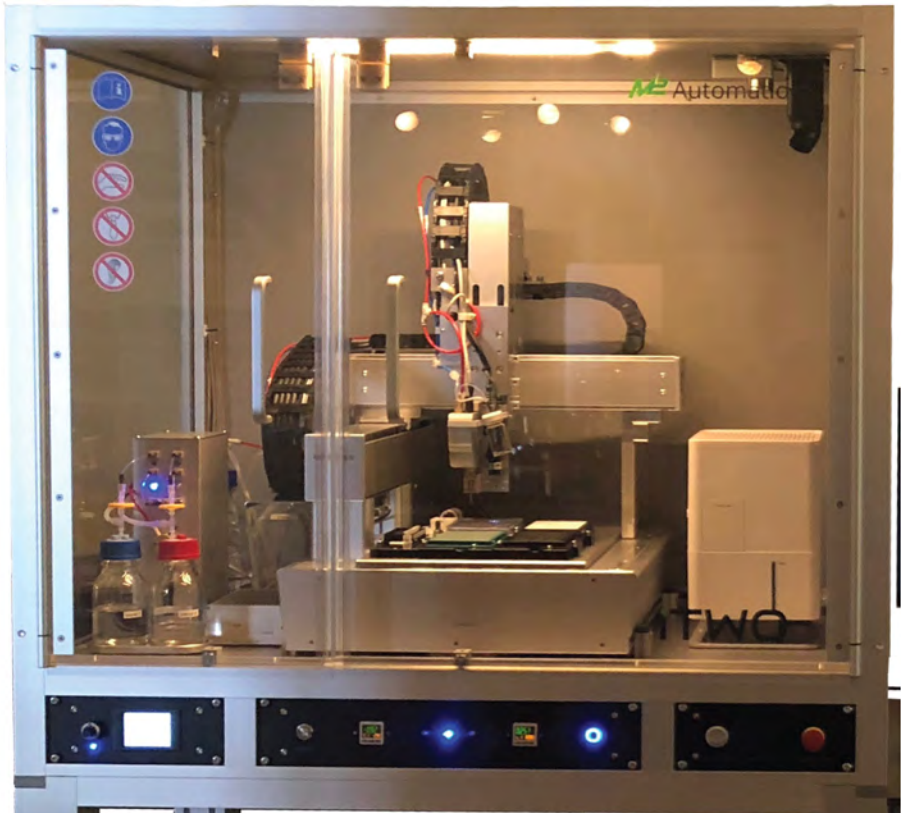
AUTOMATION

The R&D System iTWO

Precision dispensing from 30 picoliter to 100 nl per drop.

The bench-top R&D spotter from M2-Automation GmbH (Berlin).

This 5 um positioning spotter uses the very same dispensers available on production units, thus enabling you to perform R&D on your bench



From about $100K !

axiVEND

Low volume dispensing experts
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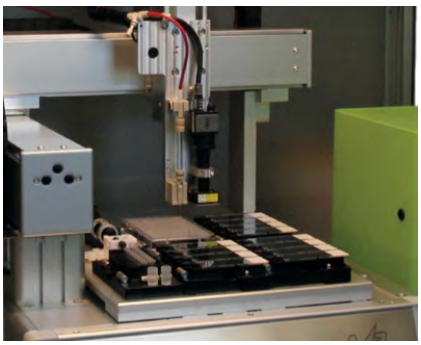
Microarray printing
Biosensor coating
Biochips / Microfluidics
Low-volume micro pipetting

... and many more applications ...



Specifications:

Volume Range:	30 pL to 100 nL / drop
Dispense CVs:	~ 2-5%
Dispenser Options:	PDMD (piezo) M2MD (proprietary) Pin Tool
Working Area:	150/220 x 300 mm
XY resolution:	+/- 1 um
XY accuracy:	+/- 5 um +/- 0.0002 in
Source Options:	96-well MTP 384-well MTP 3x8 Tubes (200 ul)
Target Options:	28 slides 4 MTPs Planar Target Holder (for wafers, membranes)
Other Options:	Humidity control Vacuum Table HEPA filter Integrations
Dimensions:	110w x 75d x 110h cm 42w x 28d x 42h in
Weight:	120 kg / 275 lbs
Power:	110 V

InDot Software

A new, unique software package that offers an intuitive and innovative way to create patterns of dots from any sample source location, in any formation and to any position on target substrates.

Advanced Imaging

Target fiducial markings can be used to align the spotting pattern. Imaging of the spotted area allows for thorough QC of each chip in each run.

Drop Volume Detection

Before and after each spotting run, drop formation can be detected and their volumes measured. The volume measurement function is very useful to tweak volumes to desired values.

Wash Station & Disposable Tips

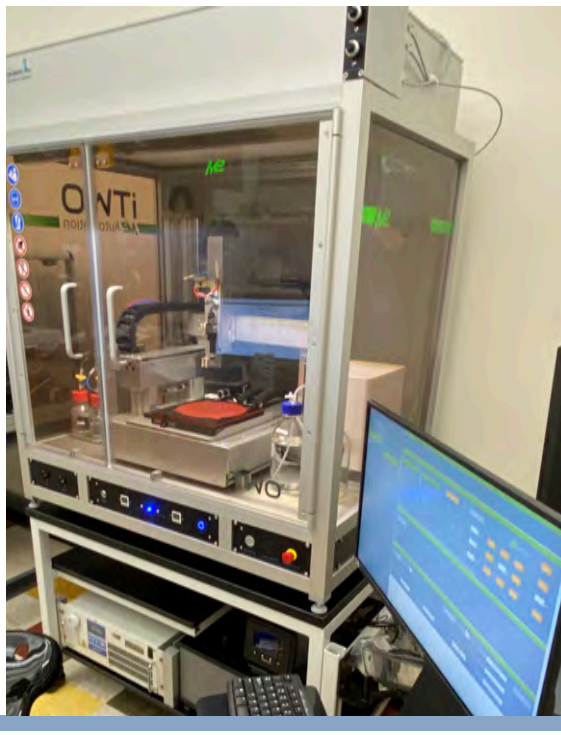
A wash station is present to clean glass and plastic tips during a run. Unique plastic tips are available for volume dispensing from 20 nL. These are useful when dispensing polymers or other difficult to clean samples.

Liquid Path Air-Free

The Ultra-low volume dispensing depends on air-free system liquid. Combined with in-line filtering and degassing, the liquid path air-free option results in the most robust way to supply the dispensers with perfect system liquid.

Pulse Shaper

A very useful feature to optimize drop ejection of more viscous samples. It is also useful when dispensing droplets of 30-40 pL.



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