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mosquito[®] HV

bridging the nanolitre to microlitre gap

mosquito[®] facts&figures

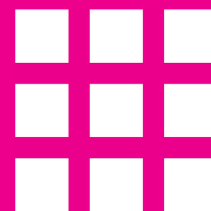
Globally
utilized in
1000s of labs



Trusted
in pharma,
biotech &
academia



Established
2003



**True
Positive
Displacement**
Accurate low-volume
transfers, regardless
of viscosity



Performs at a fraction of the volume
Nanolitre Precision



High Speed
pipetting
and spotting

Unique
liquid
handling
technology



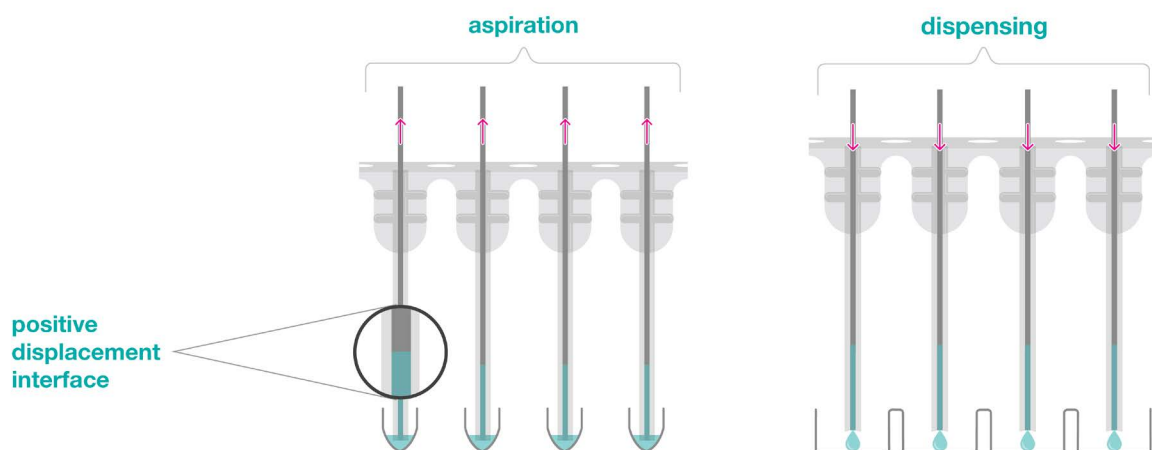
product benefits

- **Transfer accurately low and high viscosity liquids**, including buffers, enzymes, ethanol and bead slurries, thanks to true positive displacement technology
- **Reduce experimental costs by at least 75%** by miniaturizing your NGS method
- **Ensure sample and reaction integrity** with sterile disposable low-cost pipettes
- **Maximize reagent use and reduce waste** with dead volumes as low as 0.3 μ L
- **Quickly implement protocols or develop new methods** with intuitive hardware and application-driven software
- **Save laboratory space** with a densely packed spool with up to 18,500 tips
- **Extend capabilities and further streamline workflows** by integrating mosquito with robotic plate handlers, stackers, bulk dispenser and liquid handlers, and LIMS

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applications

Screening	<ul style="list-style-type: none"> • Plate reformatting and replication (96- and 384-well plates) • Acoustic-ready plate preparation • Serial dilutions of compounds
Molecular biology	<ul style="list-style-type: none"> • PCR and qPCR setups • Single-cell genomics, transcriptomics and multiomics • Bulk RNA-seq and WGS • DNA and RNA quantification
Synthetic biology	<ul style="list-style-type: none"> • Cloning • DNA assembly



technical specifications

Pipetting range	500 nL – 5 µL	Deck variants	2 or 5 plate position deck
Pipetting technology	true positive displacement agnostic to liquid viscosity	Pipetting channels	8 or 16 (depending on the spool installed)
Volumetric performance	accuracy within 5 % of target volume; precision with average of 3 % CVs throughout the volume range	Supported SBS formats	96- and 384-well skirted plates up to 19 mm in height
Dead volumes	as low as 0.3 µL	Throughput	2 min/96-well plate copy, 3 min/384-well copy, 5 min/4 x 384-well plate stamp out
Consumables	9 mm spool with 13,500 disposable, non-sterile or gamma-irradiated tips, 4.5 mm spool with 18,000 disposable, non-sterile or gamma-irradiated tips	Accessories	Precise Humidity Chamber, Passive Protective Chamber, spool cover, barcode readers, PCR clamps, cooling block, magnetic bead separation block
Laboratory temperature working range	18°C* - 28°C	Laboratory humidity working range	30% - 60% RH
Dimensions (W x D x H)	mm: 390 (790 '5-plate deck') x 470 x 690, inches: 15.5 (31.1 '5-plate deck') x 18.5 x 27	Weight	2-plate deck: 27 kg 5-plate deck: 42 kg