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mosquito®Gen3

lowering the barrier to NGS miniaturization

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 µL
- **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 13,500 tips
- **Extend capabilities and further streamline workflows** by integrating mosquito with robotic plate handlers, stackers, bulk dispensers and liquid handlers, and LIMS

sptlabtech

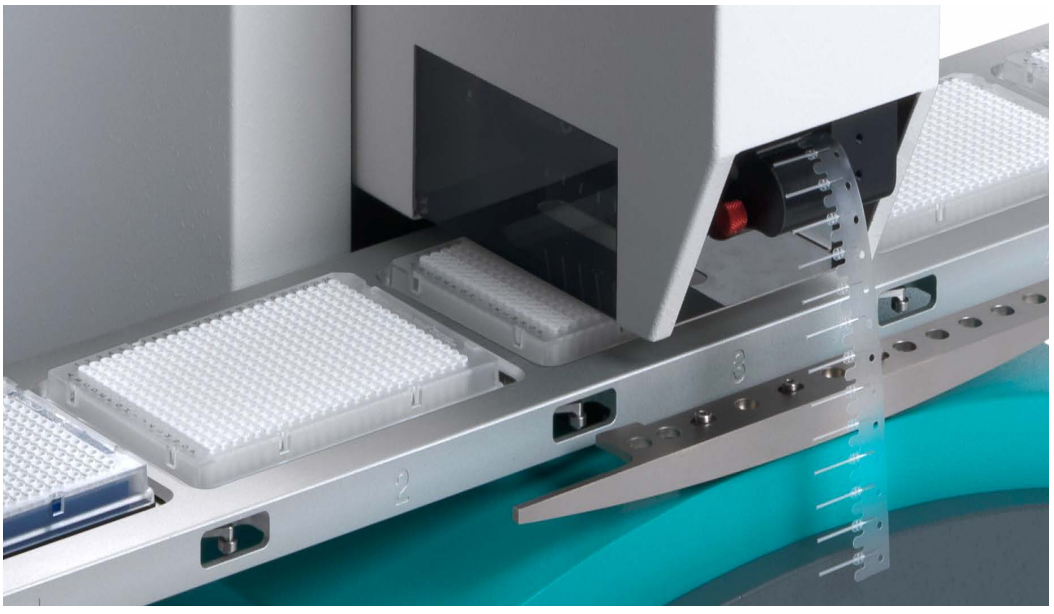
mosquito® Gen3

mosquito® Gen3

applications

Screening	• Plate reformatting and replication (96- and 384-well plates) • Acoustic-ready plate preparation • Serial dilutions of compounds
Molecular biology	• PCR and qPCR setups • Single-cell genomics, transcriptomics and multiomics • Bulk RNA-seq and WGS • DNA and RNA quantification
Synthetic biology	• Cloning • DNA assembly

40+ NGS protocols and kits miniaturized



technical specifications

Pipetting range	500 nL – 5 µL	**Deck variants**	3 plate position deck
Pipetting technology	true positive displacement agnostic to liquid viscosity	**Pipetting channels**	8
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
Consumables	**9 mm spool** with 13,500 disposable, non-sterile or gamma-irradiated tips	**Accessories**	Precise Humidity Chamber, Passive Protective Chamber, spool cover, 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:** 545 x 470 x 690 **inches:** 21.4 x 18.5 x 27	**Weight**	35 kg