

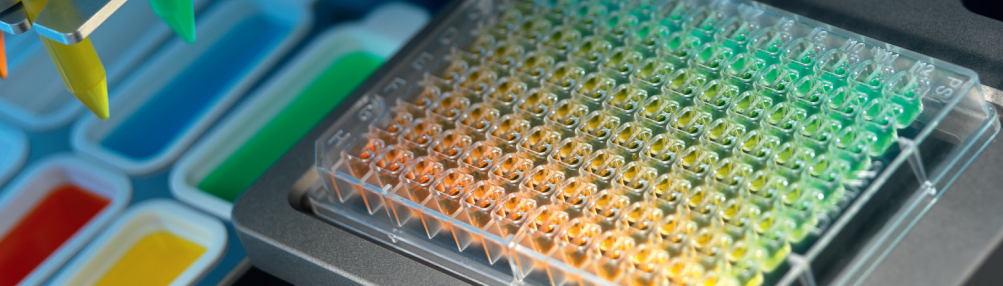
liquid handling

making the essential
exceptional



www.ttplabtech.com

 **ttplabtech**
natural innovators

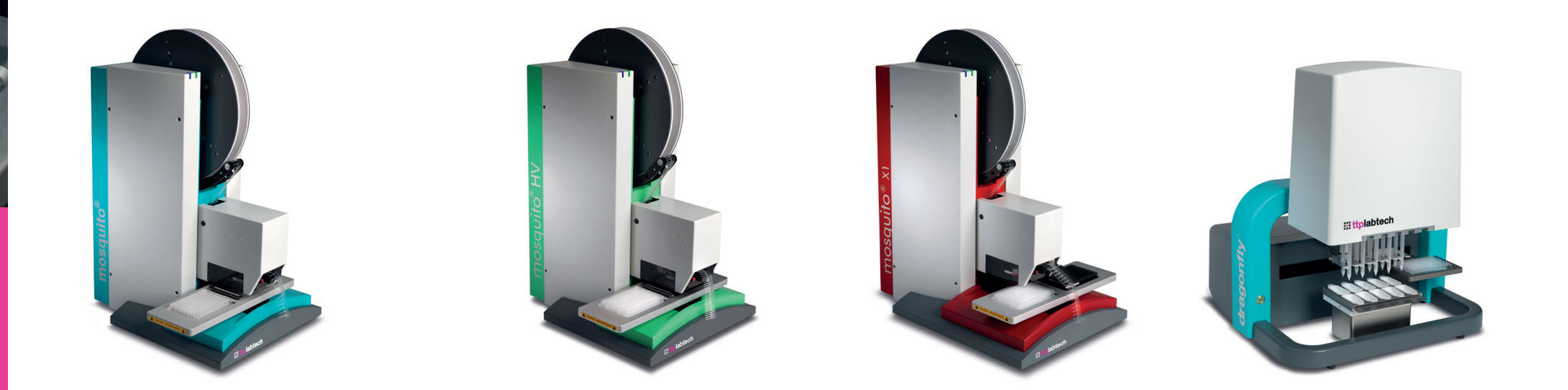


liquid handling making the essential exceptional

TTP Labtech's liquid handling portfolio provides you with accurate and repeatable nanolitre to microlitre pipetting, every time, irrespective of liquid viscosity or environmental conditions. Each of TTP Labtech's disposable micropipettes has its own individual piston – not an air gap or system liquid – offering true positive-displacement pipetting with no risk of cross-contamination.

- **range of low volumes** - robust performance from nanolitres to microlitres
- **accurate and precise** - using positive-displacement pipetting technology
- **cost savings** from optimised sample use and reduced waste
- **zero cross contamination** - using disposable pipettes
- **minimal dead volumes** - optimising reagent use
- **more than just dispensing** - our instruments are true pipettors, able to aspirate, dispense and even mix
- **ease-of-use** - proven in multiple-user labs; just walk up and use it

sample tips



mosquito® HTS

cost-saving miniaturisation

mosquito HTS offers an accurate and easy to use solution to miniaturising any assay within an automated, high throughput setting. Volume range is 25 nL–1.2 µL, which can be expanded to cover 25 nL–5 µL in conjunction with mosquito HV. This can lead to significant savings on precious reagents and time, especially as dead volumes are minimised to under 0.3 µL.

- preparation of “assay ready” plates for compound screening
- serial dilutions in miniaturised volumes
- plate reformatting, including transfer between different microplate types (96-, 384- and 1536-well plates)
- plate replication
- molecular biology applications such as: next generation sequencing (NGS), DNA, RNA extraction and PCR/qPCR preparation

mosquito® HV

effortless serial dilution

mosquito HV bridges the gap between nanolitre and microlitre pipetting. It provides highly accurate liquid handling for low volume serial dilutions and assay plate preparation across the intermediate volume range of 500 nL–5 µL.

- serial dilutions for the determination of concentration response curves
- assay ready plates can be stamped directly from compound dilution plates
- acoustic source plate creation
- molecular biology applications including rtPCR/qPCR set-up, RNAi screening and SNP genotyping
- compound and small molecule screening and hit picking
- cell or bead-based assays
- enzyme kinetic assays
- ELISAs

mosquito® X1

automated low volume hit picking

mosquito X1 is single tip nanolitre hit picking system designed for hit confirmation and secondary profiling. It offers true walk-away cherry picking from any individual well in any type of plate with high throughput. Researchers can quickly select 25 nL–5 µL volumes of hits from primary screening plates and transfer them directly to the next stage without further dilution.

- rapid, automated hit picking for validation and secondary profiling
- integration into larger screening systems to offer true walk-away hit selection at high throughput
- cherry picking onto glass slides or chips for microarray assays

dragonfly®

flexible microlitre digital pipetting

dragonfly combines non-contact, positive displacement pipetting with disposable tips (ensuring zero cross-contamination) to automate the the assay development and optimisation process. Each pipette can dispense any volume (from 500 nL–4 mL) of any liquid into any well of the plate, allowing complex assay gradients or optimisation screens to be rapidly prepared.

- biological assay development
- formulation development
- design of experiment
- lead optimisation screening

	mosquito® HTS	mosquito® HV	mosquito® X1	dragonfly®
pipetting range	25 nL–1.2 µL	500 nL–5 µL	25 nL–1.2 µL or 500 nL–5 µL	0.5 µL–4 mL
primary SBS plate format	96, 384, 1536	96, 384, 1536	any type including slides	24, 48, 96, 384
applications	miniaturises screening applications e.g. assay-ready plate preparation, reformatting and serial dilutions, PCR, qPCR	serial dilution, creation of acoustic source plates, reformatting, PCR, qPCR, NGS	provides walk-away “hit picking” from any individual well or location, assays on slides	assay development and optimisation screening without contamination or liquid classification
throughput	2 mins/ 96-well plate, 3 mins/ 384 well copy 5 mins/ 4 x 384 plate stamp out	2 mins/ 96-well plate, 3 mins/ 384 well copy 5 mins/ 4 x 384 plate stamp out	6 seconds average cycle time to: aspirate, move, dispense, change tip	4–6 ingredient, 96-well plate in 4–8 mins, irrespective of viscosity
accessories	active humidity chamber, plate processor integration (MoPP)	active humidity chamber, plate processor integration (MoPP)	fully integrated 'Cherry Picker' plate processing system	MXone automated in-well mixer
consumables	Visit ttplabtechstore.com for more information on our consumables range!			

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