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# mosquito<sup>®</sup> X1

## high speed low volume cherry picking

### mosquito<sup>®</sup> facts&figures

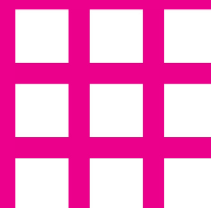
**Globally**  
utilized in  
1000s of labs



**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**

**USP** liquid  
handling  
technology



### product benefits

- **Transfer accurately low and high viscosity liquids**, including aqueous solutions, solvents and slurries, thanks to true positive displacement technology
- **Ensure sample integrity** with disposable low-cost pipettes capable of a direct piercing of sealed source plates
- **Conserve your starting material and reduce waste** with dead volumes as low as 0.3 µL
- **Cherry pick samples** with 1 nL resolution from any individual well in any plate in 6 seconds
- **Quickly set up protocols** with intuitive software using worklists in a .CSV format
- **Save laboratory space** with a densely packed spool with up to 26,000 tips
- **Extend capabilities and further streamline workflows** by integrating mosquito with robotic plate handlers, stackers, bulk dispensers and liquid handlers, and LIMS

mosquito<sup>®</sup> X1

## applications

<b>Screening</b>	<ul style="list-style-type: none"> <li>• Hit picking</li> <li>• Compound reformatting</li> <li>• Concentration normalizing</li> </ul>
<b>Medicinal and organic chemistry</b>	<ul style="list-style-type: none"> <li>• Scaffold and substrate cherry picking</li> <li>• Reaction optimization</li> </ul>
<b>Molecular biology</b>	<ul style="list-style-type: none"> <li>• Normalization of DNA and RNA sample input</li> <li>• NGS library normalization and pooling</li> </ul>
<b>Synthetic biology</b>	<ul style="list-style-type: none"> <li>• DNA assembly</li> </ul>



## technical specifications

<b>Pipetting range</b>	<b>LV:</b> 25 nL - 1.2 µL <b>HV:</b> 500 nL - 5 µL	<b>Deck variants</b>	2 or 5 plate position deck
<b>Pipetting technology</b>	true positive displacement agnostic to liquid viscosity	<b>Pipetting channels</b>	1
<b>Volumetric performance</b>	accuracy within 5 % of target volume; precision with average of 3 % CVs throughout the volume range	<b>Supported SBS formats</b>	any skirted plates up to 19 mm in height, slides
<b>Dead volumes</b>	as low as 0.3 µL	<b>Throughput</b>	6 second average cycle time (aspirate, move, dispense, change tip)
<b>Consumables</b>	<b>9 mm spool</b> with 26,000 (LV) or 13,500 (HV) disposable, non-sterile or gamma-irradiated tips	<b>Accessories</b>	Precise Humidity Chamber, spool cover, barcode readers, Cherry Picker II workstation
<b>Laboratory temperature working range</b>	18°C* - 28°C	<b>Laboratory humidity working range</b>	30% - 60% RH
<b>Dimensions (W x D x H)</b>	<b>mm:</b> 390 (790 '5-plate deck') x 654 x 690 <b>inches:</b> 15.5 (31.1 '5-plate deck') x 25.8 x 27	<b>Weight</b>	<b>2-plate deck:</b> 33 kg <b>5-plate deck:</b> 48 kg