FORMULATRIX®
www.formulatrix.com

F.A.S.T.™

96-Channel Positive Displacement Sample Transfer

The F.A.S.T. (Flow Axial Seal Tip) is a reliable and easy-to-use liquid transfer system designed to move any viscosity of liquid quickly with its one of kind positive displacement, 96-channel head. With its high accuracy, precision, and reliability for low volume sample transfers, the F.A.S.T. system saves researchers time and reduces reagent costs.

Benefits

- **Fast** - Save time on your liquid transfers with the unique 96-tip head
- **Flexible** - Save on consumables by using your choice of 1, 8, 12, or 96 tips to transfer reagents between 96- and 384-well plates
- **Versatile** - Perform cherry-picking, serial dilutions, and plate copies (broadcast, mother-daughter transfers) with ease
- **Liquid Class Agnostic** - Forget having to program liquid classes ever again; the positive displacement tips mitigate the effects of viscosity on accuracy
- **Compact** - Save on lab space as the system's small footprint allows for desktop use yet is open for integration with complementary automation
- **Zero Cross-Contamination** - The positive displacement disposable tips ensure the integrity of your samples without any risk of cross-contamination
- **Smart** - Conduct your transfers with confidence as the system features multiple state-of-the-art failsafes including tip position sensors, automatic tip arrangement, and collision detection
- **Biosafety Cabinet Compatible** - With its compact dimensions (532 mm x 403 mm x 596 mm), the F.A.S.T. can be used in various biosafety cabinets to accommodate workflows that require this level of safety

Save Time on Low Volume Transfers

Aspirate and dispense any viscosity liquid with high precision (CV 5% @ 0.1 µL).

Flexible to Fit Your Workflow and Budget

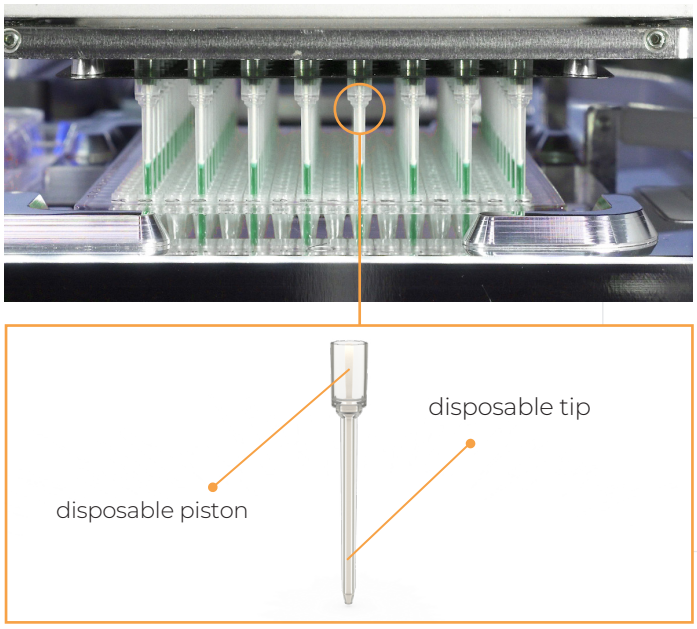
Choose how many tips to use; Compatible with any SBS-format microplate.

Go from Zero to Running Experiments in Minutes

No need for any programming or understanding difficult coding languages.

Broad Range of Applications

- DNA and RNA Extraction
- DNA, RNA, and Protein Purification
- PCR Setup and Cleanup
- Next Gen. Sequencing (NGS) Library Prep
- Pick List - Compound Management
- Serial Dilutions
- Cell-based Assays
- Antibody Assays
- Enzymatic Assays



Positive-displacement tip technology

Best in Class Performance without the Risk of Contamination

With positive displacement pipette tips, the precision of the F.A.S.T. is not affected by the types of liquid samples that are being transferred. Without the need to account for each liquid class, less time is needed to set up your experiment, while greater accuracy and precision are achieved. The disposable tips ensure the integrity of your samples while preventing any cross-contamination.

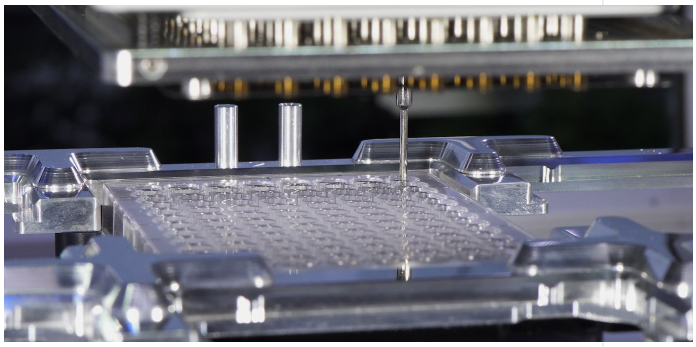
Save on Reagents with Reaction Miniaturization

The F.A.S.T., similarly to MANTIS® Liquid Handler and TEMPEST® Liquid Handler is a tool designed for low volume sample and reagent transfer at high accuracy which is crucial when setting up minimized assay reactions.

- Conserve your samples and costly reagents
- Increase assay sensitivity
- Increase throughput
- Reduce the cost per sample

Control Your Experiment Setup with Removable Decks

Interchangeable decks allow researchers to set up their tips, plates, and reagents prior to working on the instrument. The customizable decks reduce the time needed for experiment setup and reduce the chances of sample misplacement. Each removable deck is barcoded so the system knows what item (sample, labware, tips, etc.) is located at each of the positions.



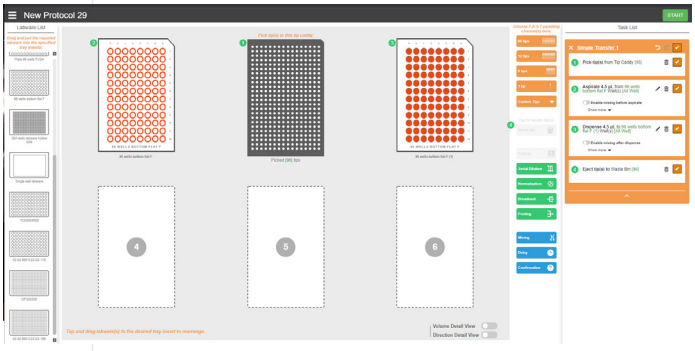
Effortlessly Set Up Your System with Fully Automated Labware Definitions and Calibration

Defining your labware has never been easier. Simply, place your plate on the deck and hit, “Go”. The software automatically characterizes the labware and saves that profile for future use. There is no programming needed. With the barcoded interchangeable decks, the software stores the calibration settings making it easy to begin running experiments. As the system reads the barcode on the deck, all the calibration information is loaded automatically.

Easy to Use Software for Any Level of User (Even my mom can use it and she doesn’t have a cell phone.)

The software was designed for any user to walk up to the system and begin running experiments. This is truly automation for everyone in the lab.

- Go from zero to running experiments in minutes
- Very shallow learning curve for new users
- No need for programming, writing, or understanding difficult software coding languages
- Import .csv files for fast experiment design



Technical Specifications

User Interface Specifications	
Browser	Google Chrome version 69

Liquid Handling and Labware Features	
Volume range	100 nL to 13 µL
Liquid Viscosity Range	Any viscosity of liquid
Dispense Mode	Contact dispensing
Transfer Precision	5% CV at 0.1 µL
Microplate Compatibility	SBS footprint microplates from 1-well up to 384-well

F.A.S.T. Physical Dimensions

- Width: 532 mm
- Height: 403 mm
- Depth: 596 mm
- Weight: 13 kg

For more information about F.A.S.T., visit us at **www.formulatrix.com** or email **info@formulatrix.com**

