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INNOSMART® MFS

High-throughput Workstation and Integrated Solutions

INNOSMART® Multi-Functional Fluid System (MFS)

INNOSMART® MFS

INNOSMART® MFS is an innovative, modularized system that seamlessly integrates sample preparation automation with advanced analytical testing and analysis. Boasting flexibility, versatility, and full customization, it offers a comprehensive workflow solutions for many different scientific applications. MFS provides a comprehensive array of method and protocol libraries encompassing nucleic acid synthesis, genomics analytics, transfection, cell culture, purification, and numerous other applications.

1 Conveyor Module

- Easily integrates with the MFS module and a diverse array of devices and accessories
- Streamlined, automatic cleanup of consumables for enhanced efficiency
- Ensures a sterile environment, guaranteeing superior and reliable results

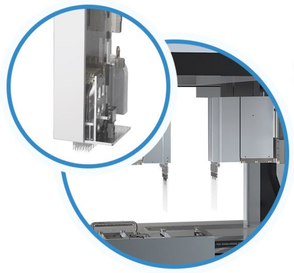
2 Pumping Assembly

Precise and smooth automatic pumping and liquid control system

3 Instrumentation Modules

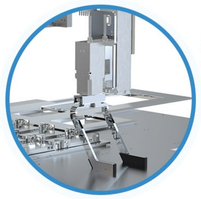
Compact footprint accommodates multiple miniaturized devices and analytical instruments, such as PCR machine, chip reader, cell imager, cytometer, protein assay plate reader, infrared and UV devices, and various other modules

Flexible configuration based on process needs.



4 8-channel and 96-channel Pipetting Modules

- Independent 8-channel spacing control for greater volume accuracy
- Advanced automatic liquid detection and tracking functions for superior performance



5 Robotic Gripper

Agile and precise consumable transfer

6 Centrifuge

- Up to 4,000 g – force
- High throughput of 16 tubes (50mL)
- Temperature control range of 4–40℃

7 Decapper Array

Compatible with:

- 2–50mL centrifuge tubes
- 0.5–5mL cryotubes
- 2–50 R vials
- 1–2mL cryotubes
- Many more

8 Agile Robot

For highly efficient consumable transfer and operation

9 Shaker

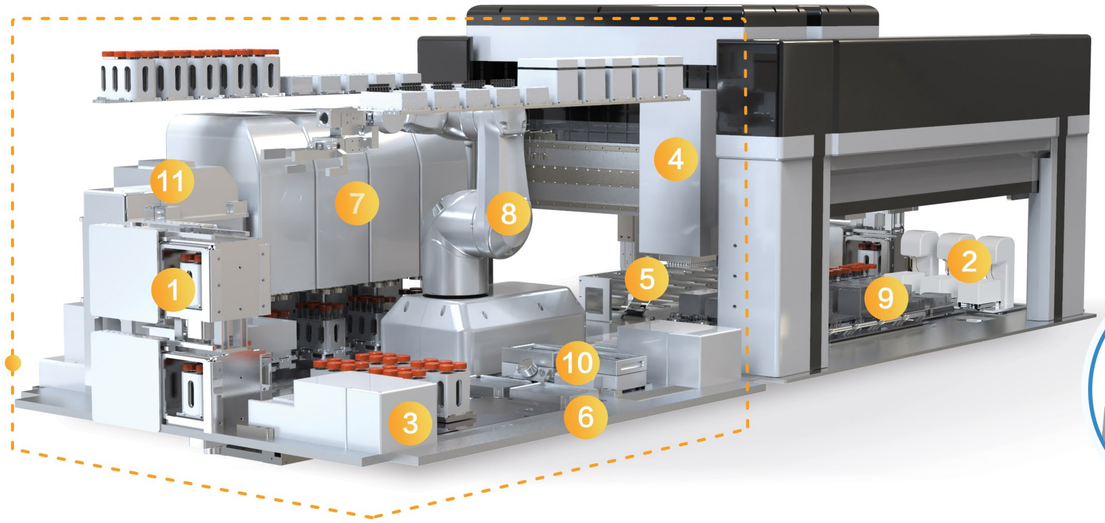
0–1,500 rpm & 0–95℃ temperature control

10 Vacuum Filter

Vacuum operation of plates and tubes

11 Metallic Bath

Well plate cooling between 2–8℃ and heating up to 95℃

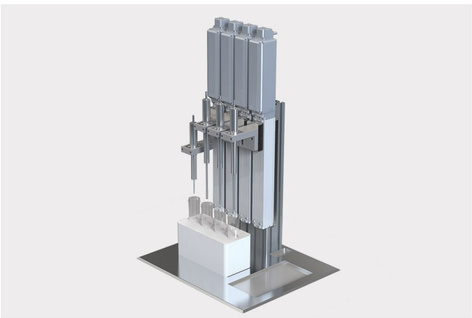


MFS System – Versatile and Customizable Modular Deck Configuration

Modules & Accessories

Over 20 Different Categories of Decappers

- Centrifuge Tubes: 2mL / 15mL / 50mL
- Flasks: 125mL / 250mL
- Cryo & Sample Tubes: 0.5mL / 1mL / 2mL / 5mL
- Chromatography & Mass Spectrophotometry: All sizes
- Eppendorf Tubes: 1mL / 2mL
- Vials: 2 - 50R



Flexible pH Detection and Calibration

- Multi–channel concurrent pH detection and calibration
- Automatic cleaning and dry–up of pH probes
- Automatic calibration of pH sensors

High Viscosity Liquid & Solid Powder Dosing Module

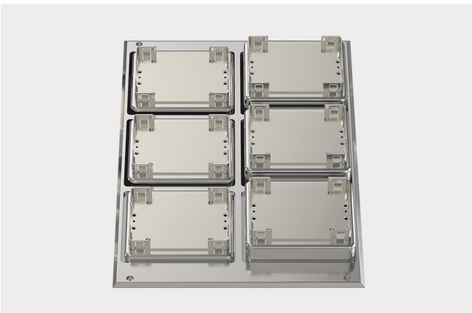
- Accurate dispensing of solid powder within the range of 1 – 5,000mg with an error margin of less than 3%
- Dedicated closed loop weighing system
- Independent solid grinding component
- Precise dispensing of high viscosity liquid with an error margin of less than 3%
- Environmental control system

Multiple Methods of Filtration and Purification

- Combined unit of injector and filter
- Chromatography unit
- Pressurized filter unit
- Gravity filter unit

Over 30 Analytical Devices

- INNOMET Plate Reader or third party
- INNOMET Concentration Decive or third party
- INNOMET Cell Counter or third party
- INNOMET Cell Imager or third party
- INNOMET PCR or third party
- INNOMET UV or third party
- High–Content Imager or third party
- Integration capability with any automation ready instruments in the market

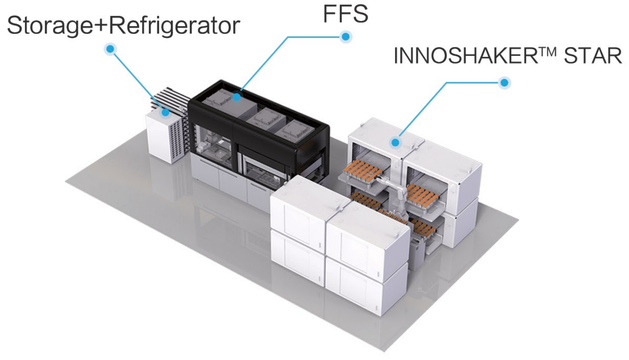


Multiple Shaker Modules with Temperature Control

- Well plates
- Centrifuge and culture tubes of any sizes
- Flask sizes up to 250mL
- Solid powder weighing up to 5,000mg

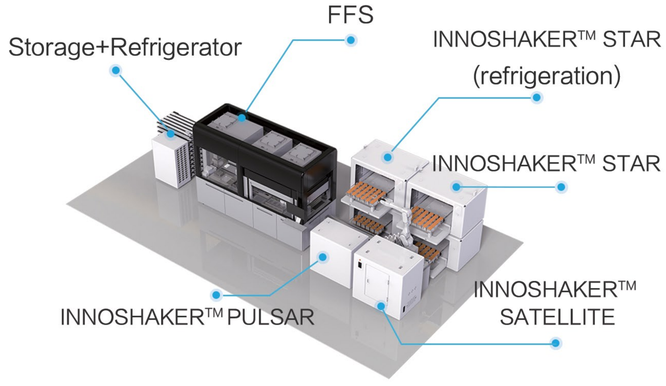
Pre-Configured Application Systems

More than 30 applications



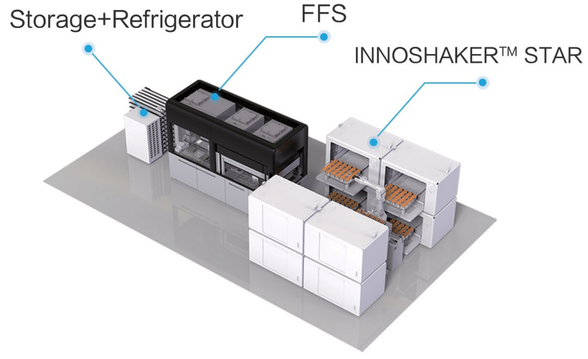
Style1 FFS+Storage+Refrigerator+INNOSHAKER™ STAR

Plasmid Construction



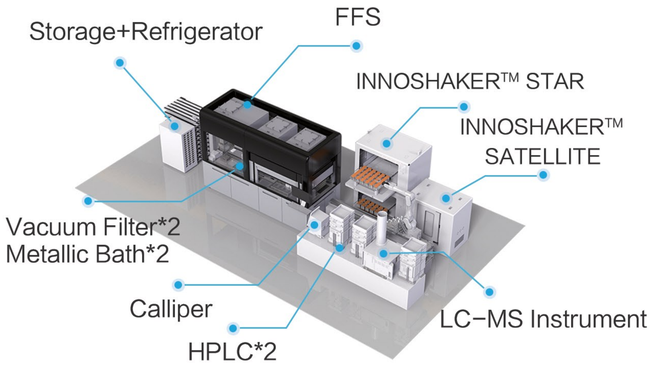
Style2 FFS+Storage+All Kinds of INNOSHAKER Incubators

Large Scale Cell Incubation



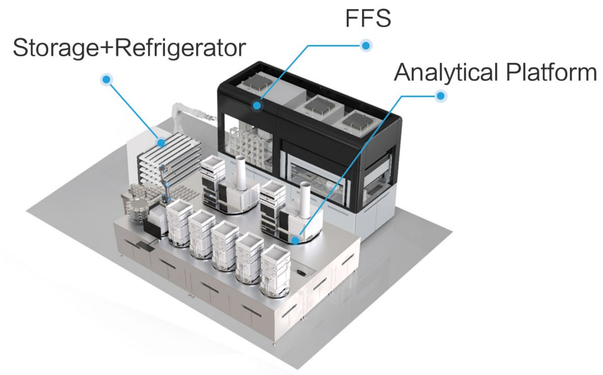
Style3 FFS+Storage+Refrigerator+INNOSHAKER™ STAR

Plasmid Extraction (Flasks)



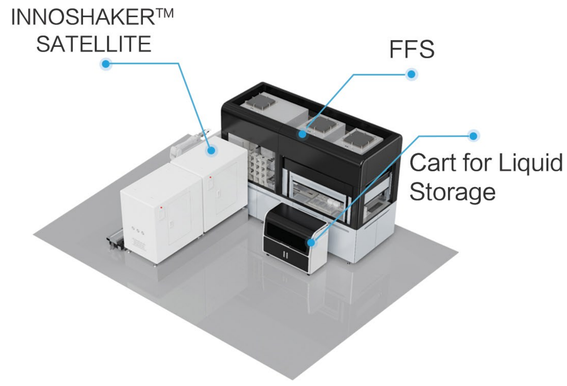
Style4 FFS+Storage+Incubators+Various Types of Analytical Instruments

End to End Screening Platform



Style5 FFS+Storage+Refrigerator+Analytical Platform

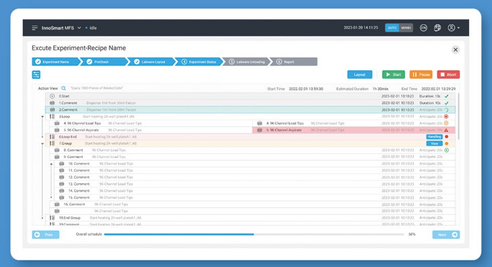
Integrated High-Throughput
Analytical Platform



Style6 FFS+Storage+INNOSHAKERTM SATELLITE

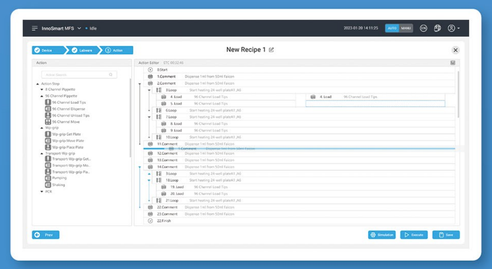
Toxicology & Pathological Testing System

Integrated System Software



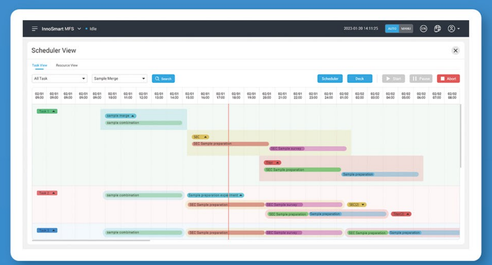
Remote Monitoring and Operation

- Keep connected with your laboratory wherever you are
- Observe system operations in real time
- Monitor the status of consumables
- Real time alerts and notifications



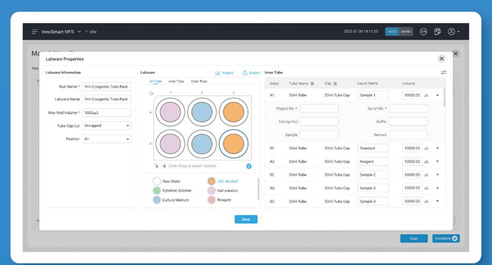
Protocol Designer and Library

- Intuitive and easy to use protocol designer
- Over 30 pre−developed protocols for different applications
- Full oversight of operations and scheduling



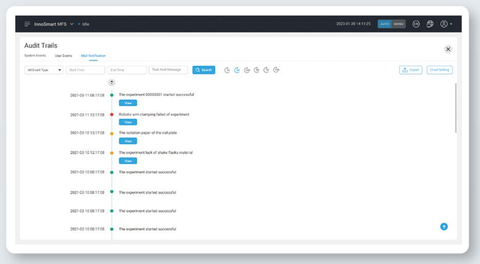
Analytics

- Analytics dashboard for better control
- Built in Artificial Intelligence (AI) for greater insights
- Integration capability with 3rd party applications and software



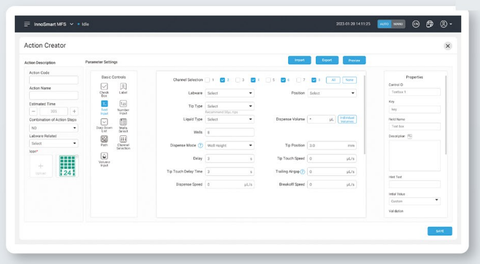
Record Keeping and Data Storage

- Transparency and traceability with individual user ID access
- Integration with existing 3rd party information management software
- Customizable queries and reports



Audit & Reporting

- Complete recording & easy traceability
- Multi−query fully customizable reports
- Real−time alerts and notifications



Systems Setting

- Intuitive system setup and protocol designer
- Full oversight of the system and consumables