

Galatek

LIQUID HANDLING WORKSTATION

Galatek G-Snap Professional Liquid Handling Workstation



Satisfying all application scenarios of liquid handling
Building a smart and collaborative laboratory ecology

Platform-
based

Multi-
module

Full-
featured

Custom-
tailored

Liquid Handling Workstation Galatek G-Snap

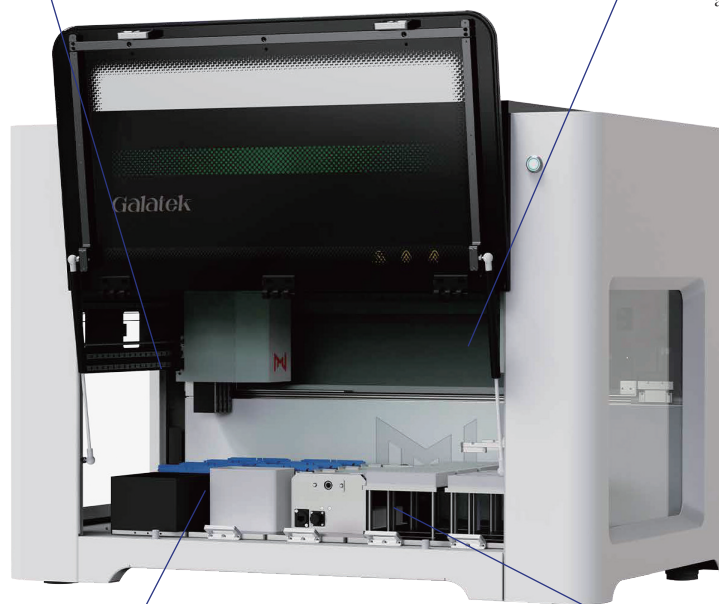
The self-developed liquid handling workstation Galatek G-Snap is equipped with 4 independent 1000 μ L pipetting channels, features independent and adjustable pipetting spacing and pipetting volume. It is compatible with all kinds of sample, reagent consumables and functional modules, and can be freely configured according to different application scenarios and integrated on demand. It features a special and powerful robotic arm expansion ability to support parallel processing of plate handling and pipetting, and can connect and integrate multiple devices to ensure that it fulfills the needs of various complex laboratory automation scenarios. This workstation is widely used in the fields of bio-pharmaceuticals, life sciences, and clinical diagnostics to continuously optimize experimental reliability and automated uptime, greatly improving efficiency.

Flexible Pipetting Module

4 channels of independent and adjustable spacing and liquid level detection. Fast and high-precision pipetting. Pipetting range of 2 μ L-1000 μ L.

Upgradeable to Dual Robotic Arms

Optional plate handling robotic arm to meet the needs of automation requirements of experimental analysis



Free Configuration For Working Area

Compatible with different sample tubes: Support for blood sampling tubes, centrifuge tubes, sample tubes, etc. Compatible with different consumables: Support for deep well plates, cell plates, pipetting tips, etc.

Personalized Module Integration

Optional modules for shaking, magnetic stand, barcode scanning, temperature control, etc. One platform, unlimited combinations.

USAGE SCENARIOS

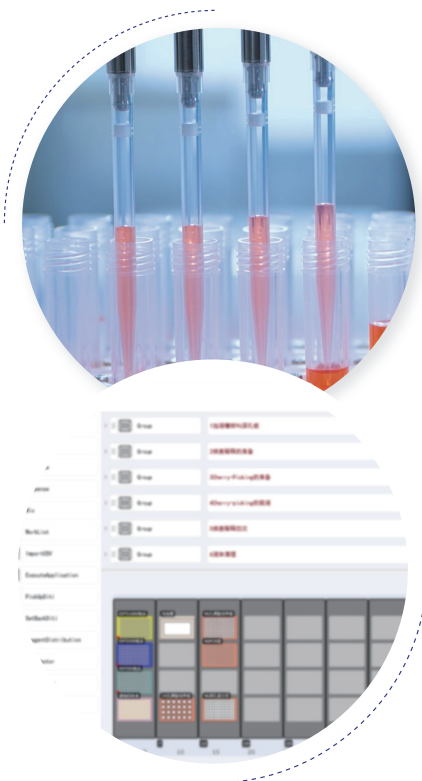
Genomics

Proteomics

Cell Biology

Drug
Discovery

Synthetic
Biology



Flexible Pipetting Channel

- Adjustable channel spacing from 9 mm-18 mm for fast pipetting from tube to plate.
- Each channel can independently detect the liquid level and simultaneously aspirate liquid up to different heights.
- Independent Z-axis, enabling convenient realization of functions such as cherry picking and pooling.

Highly Open Software

Built-in multiple pipetting modes, drag-and-drop process editing.

Graphical worktable design, free to set the deck layout.

Convenient program management design, one-click to start running.

Support the upgraded functions such as Liquid Class setting, Work List import, CSV import, etc.

Product Features

Diversified liquid handling modes backed by professional capability

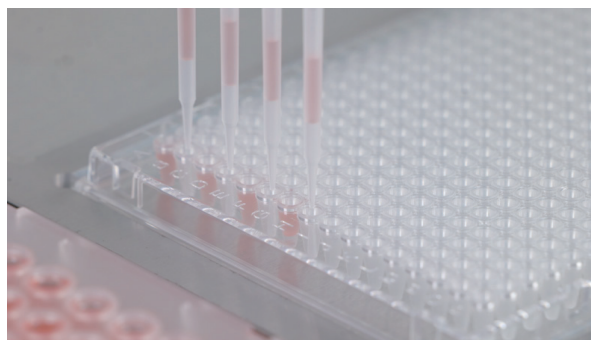
- Support whole-plate replication or dispensing, compatible with loading slots and 96-well plates.
- Liquid transfer from any tubes, plate wells.
- Accurately perform gradient dilution by row or column.
- Easy to realize the functions of one aspiration with one dispensation, one aspiration with multiple dispensation, "pooling" and "cherry picking".
- Support Liquid Class settings such as Air Gap, aspiration delay, etc.
- Easy to realize.

Special expansion ability for the robotic arm to support parallel processing

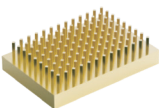
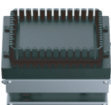
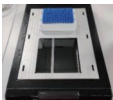
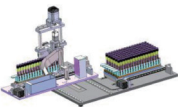
- According to the different application requirements, a platform can be equipped with up to two robotic arms, including robotic arm for handling plate and pipetting.
- The integrated pipetting robotic arm adopts pressure detection to ensure stability and efficiency.
- Plate handling robotic arm allows 360° rotation to reach the whole deck, transferring consumables among different functional areas.

Capable of integrating multiple modules, freely configuring workspace

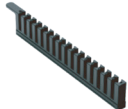
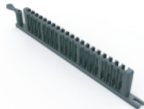
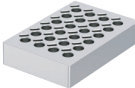
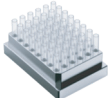
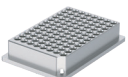
- Compatible with all kinds of consumables such as SBS plates, sample tubes, loading slots, and tips, supporting multiple application scenarios.
- Multiple functional modules are available, including modules of temperature control, shaking, temperature controlled shaking, magnetic stand, barcode scanning etc., which can be integrated and customized on demand.
- Freely replaceable carriers support operating platform reconfiguration
- The composed 25 standard SBS plate positions can meet various throughput requirements



Functional Modules

Photo	Name	Functions	Parameters
	PCR machine	Used for enzymatic reactions and PCR reactions in experiments	Temperature range: 4°C to 99°C
	Blood separation module	Used to identify and separate complex blood components	Blood component dispensing features an ultra-high definition CCD camera to achieve accurate stratification definition of the liquid in the tube
	Magnetic stand	Used for magnetic bead separation during experiments	Match SBS well plates
	Heating and shaking module	To provide shaking and heating function, suitable for SBS microwell plates	Temperature range: RT to 99°C Shaking speed: 50 rpm-2000 rpm
	Temperature control module	To provide a constant temperature (cooling or heating) function	Normal temperature control range: 4°C~90°C, extreme temperature control range: 0°C~110°C
	Positive pressure module	Used for solid phase extraction in the sample pretreatment step	Precise regulation of pressure and flow for fast SPE. Software controls the flow rate automatically, eliminating the impact of human factors on SPE extraction
	HEPA module	Basic safety module of the protective barrier for laboratory biosafety	Support positive or negative pressure, depending on demand
	2D code scanning at the bottom of the cryopreservation tube	Used for automatic scanning and identification of the 2D code at the bottom of the whole plate tube in the SBS cryopreservation box	Adaptable to 8*12 or 10*10 cryopreservation box, compatible with various tubes
	Cryopreservation tube capping & uncapping module	Used for fast and automatic capping and uncapping of the whole plate tube in the SBS cryopreservation box	Uncapping time of 96 samples is less than 20 seconds
	Blood sampling tube uncapping module	Automatic uncapping and cap dropping of blood sampling tubes	Uncapping speed less than 3 seconds per tube

Conventional Carriers

Photo	Name	Adaptive Consumables
	16-tube carrier	Capable of placing 16 tubes, suitable for blood sampling tubes and reagent tubes
	20-tube carrier	Capable of placing 20 tubes, suitable for blood sampling tubes and reagent tubes
	6-tube SBS adapter	Capable of placing 6 tubes
	12-tube SBS adapter	Capable of placing 12 tubes
	24-tube SBS adapter	Capable of placing 24 tubes, suitable for 1.5mL, 2mL EP tubes
	48-tube SBS adapter	Capable of placing 48 tubes, suitable for 1mL - 4mL sample tubes
	SBS well plate carrier	Capable of placing 1 plate, suitable for SBS standard well plates, such as 96-well/384-well PCR plate
	SBS well plate carrier	Capable of placing 1 plate, suitable for SBS standard well plates, such as deep-well plate, ELISA plate, cell culture plate, etc.
	Tip carrier	Capable of placing 1 plate, suitable for SBS standard tip boxes
	5-position conventional carrier plate	Capable of placing 5 plates, suitable for SBS standard well plates, loading slots, and tip boxes
	8-strip tube adaptor	Capable of placing 12 columns, suitable for 0.2mL PCR 8-strip tubes
	Others	Support customized carriers based on specific consumables

Multi-level Liquid Handling Workstations

Suitable for various application scenarios



Product Features		Galatek G-Snap		
Appearance	Size	1100(W)*770(D)*820(H)		
	Net Weight	130 kg		
Power	Voltage	100-240 VAC		
	Frequency	50-60 Hz		
	Rated Power	300 W		
Operation Environment	Temperature	15-32 C		
	Humidity	30-80%(No condensation)		
Pipetting Environment	Temperature	20-27 C		
	Humidity	30—60% (No condensation)		
Pipetting Performance	Pipetting principle	Air Displacement Principle		
	Pipetting Range	1-1,000 µL		
	Pipette Tip Type	Flexible 4-channel		
	Pipetting Precision	Tip Size	Pipetting Volume	Precision
		10 µL	2 µL	5.0%
		10 µL	10 µL	3.0%
		200 µL	50 µL	2.0%
Number of plate positions		25(30 grids)		
Robotic Arm	Positioning Accuracy	X-Y-Z Positioning ±0.2 mm		
	Maximum Number of robotic arms	2		
Accurate Sample Identification		Lateral code scanning (manually)		

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Declaration

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