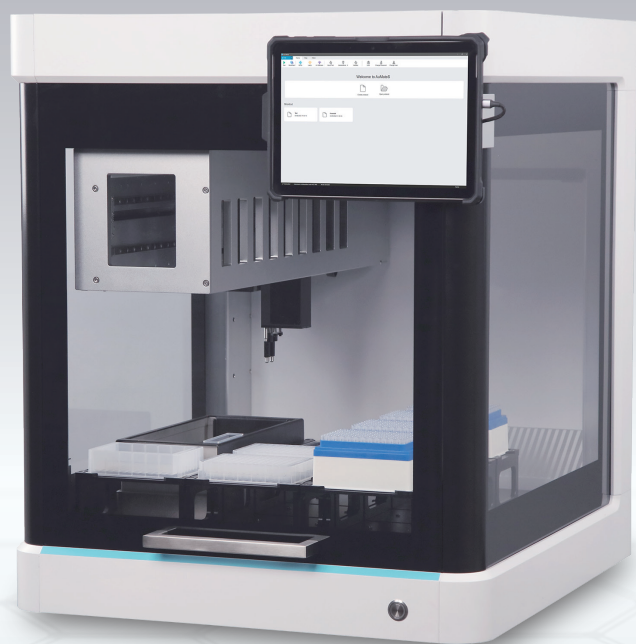


ALLSHENG

# Au-Mate 1000 Series

Automatic Liquid Handling Workstation



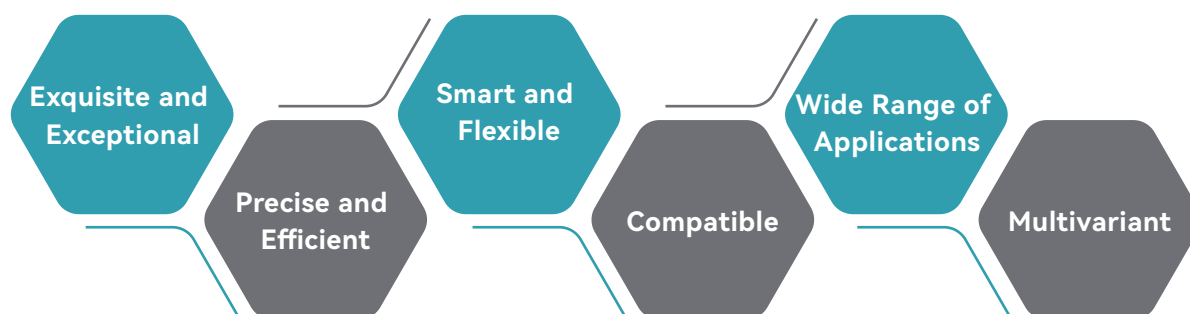
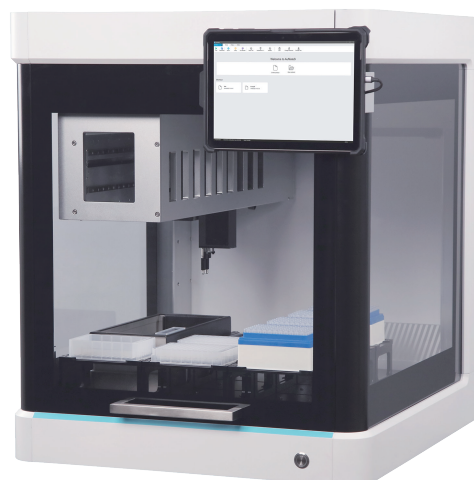
Build the Future Laboratory, Start with Automatic Pipetting

# Au-Mate 1000 Series

## Automatic Liquid Handling Workstation

The Au-Mate 1000 series fully automatic pipetting workstations newly launched by Hangzhou Allsheng Instruments Co., Ltd. are work platforms designed to meet the flexible and customized open pipetting application scenarios, capable of satisfying various pipetting modes. They are developed to adapt to the development trends of "higher throughput, greater intelligence, and more integration", while also taking into account accuracy, flexibility, and sustainability.

In the future, with breakthroughs in fields such as synthetic biology and personalized medicine, these workstations will be indispensable for enhancing scientific research efficiency and reliability, and will become one of the core nodes of "smart laboratories".



### Features



#### Simplify

Get rid of tedious and boring operations, and eliminate the interference of human factors



#### Efficient

A variety of pipette specification and volume combinations improve liquid transfer efficiency



#### Stable

Support modular maintenance calibration for long-term maintenance-free and stable operation



#### Expand

Open table layout and program editing reserved for more application scenarios

## Au-Mate 1000 Series Models and Configurations

Model	Pipette	Application	Tabletop module
<b>Au-Mate 1000A</b> <b>Fully Automatic</b> <b>Pipetting Workstation</b>	1×8-channel pipette 8C-200/8C-1000	Basic pipetting work such as reagent dispensing and sample transfer	7×SBS basic plate racks (for placing SBS standard consumables like tip boxes and PCR plates), 4×80mL reagent reservoirs, 24×1.5mL centrifuge tube carriers, 1×waste box + 1×waste liquid tank
<b>Au-Mate 1000B</b> <b>Fully Automatic</b> <b>Pipetting Workstation</b>	2×single-channel pipette SC-1000B	Basic pipetting work such as library normalization and sample mixing	7×SBS basic plate racks (for placing SBS standard consumables like tip boxes and PCR plates), 4×80mL reagent reservoirs, 24×1.5mL centrifuge tube carriers, 1×waste box + 1×waste liquid tank
<b>Au-Mate 1000C</b> <b>Fully Automatic</b> <b>Pipetting Workstation</b>	2×single-channel pipette, SC-1000B; 1×8-channel pipette, 8C-200/8C-1000	PCR system construction, and can also be used for reagent distribution before various tests	7×SBS basic plate racks (for placing SBS standard consumables like tip boxes and PCR plates), 1×cooling module (12×1.5mL cryotubes + 6×PCR strip tubes), 12×1.5mL centrifuge tubes + 6×PCR strip tube carriers, 1×waste box + 1×waste liquid tank
<b>Au-Mate 1000D</b> <b>Fully Automatic</b> <b>Nucleic Acid Extraction and Purification Instrument</b>	1×8-channel pipette; plate gripper, 8CG-1000	96-sample magnetic bead downward aspiration nucleic acid extraction, including sample lysis, washing, and elution	6×SBS basic plate racks (for placing SBS standard consumables like tip boxes and deep - well plates), 1×heating and mixing module, 1×basic magnetic rack, 12×1.5mL centrifuge tubes + 2×80mL reagent reservoir carriers, 1×waste box + 1×waste liquid tank
<b>Au-Mate 1000G</b> <b>Cup Dispensing</b> <b>Processing System</b>	2×single-channel pipette SC-1000B, 2×cap opening manipulators DG-100	Manipulators DG-100 96-sample cap opening, closing, and dispensing	6×16-well sample racks, 1×2-tube position tube clamping module, 1×24-well centrifuge tube rack, 1×waste box, 1×SBS basic plate rack (for placing tip boxes), 1×transfer robot

## Optional Pipettes and Manipulators



Name	Compatible consumables	Pipette specifications	Pipetting range	Accuracy		Precision	
<b>8 Channel Pipette</b>	50μL Tips	200μL	1μL~200μL	1μL: ±8%	100μL: ± 1%	1μL: <5%	100μL: <1%
	200μL Tips			20μL: ±2%	200μL: ± 1%	20μL: <2%	200μL: <1%



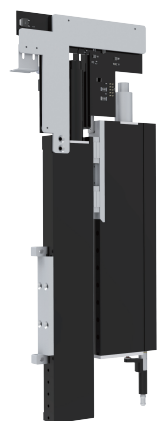
<b>24 Channel Pipette</b>	50μL Tips	200μL	1μL~200μL	1μL: ±10%	5μL: ±4%	20μL: ±2%	1μL: <5%	20μL: <2%	100μL: <1%
	200μL Tips			100μL: ± 1%	200μL: ± 1%		5μL: <4%	100μL: <1%	200μL: <1%

## Single Channel 1000 $\mu\text{L}$ Pipette

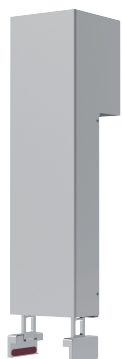


Pipetting range			Accuracy		Precision	
Tip / ( $\mu\text{L}$ )	Aspirate once and dispense once/ $\mu\text{L}$	Aspirate once and dispense multiple times/ $\mu\text{L}$	Aspirate once and dispense once/ $\mu\text{L}$	Aspirate once and dispense multiple times/ $\mu\text{L}$	Aspirate once and dispense once/ $\mu\text{L}$	Aspirate once and dispense multiple times/ $\mu\text{L}$
20	1~20	/	1 $\mu\text{L}$ : $\pm 10\%$ 10 $\mu\text{L}$ : $\pm 5\%$ 20 $\mu\text{L}$ : $\pm 1.5\%$	1 $\mu\text{L}$ : $< 5\%$ 10 $\mu\text{L}$ : $< 3\%$ 20 $\mu\text{L}$ : $< 1\%$	/	/
50	1~50	20~50	1 $\mu\text{L}$ : $+15\%$ 5 $\mu\text{L}$ : $+5\%$ 25 $\mu\text{L}$ : $42\%$ 50 $\mu\text{L}$ : $+2\%$	1 $\mu\text{L}$ : $\leq 8\%$ 5 $\mu\text{L}$ : $\leq 2.5\%$ 25 $\mu\text{L}$ : $\leq 1\%$ 50 $\mu\text{L}$ : $< 1\%$	/	/
200	2~200	20~200	2 $\mu\text{L}$ : $17.5\%$ 20 $\mu\text{L}$ : $+3\%$ 100 $\mu\text{L}$ : $42\%$ 200 $\mu\text{L}$ : $+1\%$	2 $\mu\text{L}$ : $< 4\%$ 5 $\mu\text{L}$ : $< 1.5\%$ 100 $\mu\text{L}$ : $< 1\%$ 200 $\mu\text{L}$ : $< 0.5\%$	10 $\mu\text{L}$ : $\pm 5\%$	10 $\mu\text{L}$ : $< 2\%$
1000	5~1000	30~1000	5 $\mu\text{L}$ : $18\%$ 100 $\mu\text{L}$ : $\#1.59$ 500 $\mu\text{L}$ : $+1\%$ 1000 $\mu\text{L}$ : $\pm 1\%$	5 $\mu\text{L}$ : $< 4\%$ 100 $\mu\text{L}$ : $< 0.75\%$ 500 $\mu\text{L}$ : $< 0.5\%$ 1000 $\mu\text{L}$ : $< 0.5\%$	20 $\mu\text{L}$ : $\pm 3\%$	20 $\mu\text{L}$ : $\leq 3\%$

## Single Channel 5000 $\mu\text{L}$ Pipette

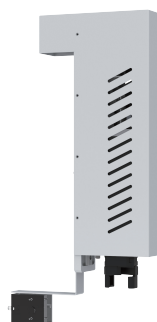


Pipetting range			Accuracy		Precision	
Tip / ( $\mu\text{L}$ )	Aspirate once and dispense once/ $\mu\text{L}$	Aspirate once and dispense multiple times/ $\mu\text{L}$	Aspirate once and dispense once/ $\mu\text{L}$	Aspirate once and dispense multiple times/ $\mu\text{L}$	Aspirate once and dispense once/ $\mu\text{L}$	Aspirate once and dispense multiple times/ $\mu\text{L}$
1000	30~1000	100~1000	30 $\mu\text{L}$ : $\pm 5\%$ 500 $\mu\text{L}$ : $\pm 2\%$ 1000 $\mu\text{L}$ : $\pm 1.5\%$	50 $\mu\text{L}$ : $\pm 3\%$	30 $\mu\text{L}$ : $< 2.5\%$ 500 $\mu\text{L}$ : $\leq 1.5\%$ 1000 $\mu\text{L}$ : $\leq 1\%$	50 $\mu\text{L}$ : $\leq 3\%$
4000	50~4000	200~4000	1000 $\mu\text{L}$ : $\pm 1.5\%$	100 $\mu\text{L}$ : $\pm 5\%$ 500 $\mu\text{L}$ : $\pm 3\%$	1000 $\mu\text{L}$ : $\leq 1\%$	100 $\mu\text{L}$ : $\leq 3.5\%$ 500 $\mu\text{L}$ : $\leq 2.5\%$
5000	50~5000	200~5000	1000 $\mu\text{L}$ : $\pm 1.5\%$	100 $\mu\text{L}$ : $\pm 5\%$ 500 $\mu\text{L}$ : $\pm 3\%$	1000 $\mu\text{L}$ : $\leq 1\%$	100 $\mu\text{L}$ : $< 3.5\%$ 500 $\mu\text{L}$ : $\leq 2.5\%$



### Wrencher

It supports SBS standard, and the width of about 85 mm can be transferred, and the consumable board can be grabbed up to 500g.



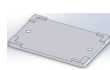
### Cap Opening Manipulator

It is used for the transfer and opening/closing of sample tubes.

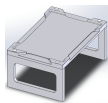


## Optional Racks

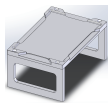
### Plate - Type Racks



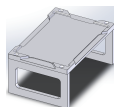
Standard Plate Rack  
8 mm



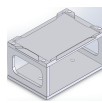
Standard Plate Rack  
55 mm



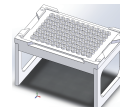
Standard Plate Rack  
66 mm



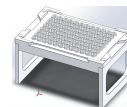
Standard Plate Rack  
73 mm



Standard Plate Rack  
79 mm

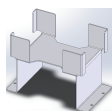


Magnetic Rack  
66 mm



Magnetic Rack  
72 mm

### Stacking Racks



Stacking Plate Rack  
103.5 mm

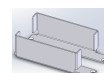
### Trough - Type Racks



Waste Box Rack  
5 L



Waste Box Rack  
4 L



Waste Box Rack, Tilted  
1.5 L

## Functional Modules



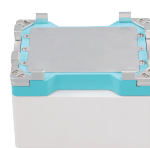
Mixing Module  
Au-Shaker 3020L



Mixing Module  
Au-Shaker 5012L



Heating and Mixing Module  
Au-Shaker 3020TL



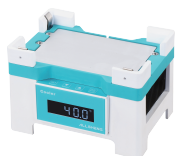
Liquid - Cooling and  
Refrigerating Mixing Module  
Au-Shaker 1530CL



Heating Module  
Au-Heater 10



Refrigerating Module  
Au-Cooler 10



Refrigerating Module  
Au-Cooler 20



Mini Mixing Module  
Mini-Shaker 1



Mini Mixing Module  
Mini-Shaker 4



Bar - Shaped Heating Module  
Au-Heater 20



Fluorometer Module  
Au-Fluo 24



Lifting Magnetic  
Rack Module  
Au-Mag 96



2 - Position Tube -  
Clamping Module  
CLP-2

## Specification

Instrument Name	Automatic Liquid Handling Workstation
Model	Au-Mate 1000A、B、C、D、G
Function	Equipped with different - specification pipettes, various functional modules and consumable racks to meet all kinds of liquid - handling requirements
Mainframe Specification	Adopting F1000 mainframe framework, 12 standard plate positions on the bench (18 standard graduations in the X - direction)
Manipulator Arm	Configured with composite manipulator arm as required
Motion Precision	±0.1mm (X / Y / Z axis)
Liquid Detection	Equipped with air pressure and capacitance detection and its derivative application technologies, such as anti - splash, coagulation detection, and viscosity detection
Operating System	Windows
Tablet Computer	10.1 - inch touch - screen tablet computer
Software Configuration	Including instrument configuration, platform configuration, consumables and liquid library, program editing, operation and log recording functions
Overall Dimensions	610×680×755 mm (L×D×H), with the height of instrument feet being 25mm
Input Power Supply	AC100-240, 50/60 Hz

## Ordering Information

Code	Product Description
AS-26020-00	Au-Mate 1000A Automatic Liquid Handling Workstation
AS-26040-00	Au-Mate 1000B Automatic Liquid Handling Workstation
AS-26050-00	Au-Mate 1000C Automatic Liquid Handling Workstation
AS-26060-00	Au-Mate 1000D Nucleic Acid Purification System
AS-26090-00	Au-Mate 1000G Sample dispensing and processing system

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