❯ Performance Parameter

Pipette	Pipette Type	Fixed 8 channel	
	Pipette Range	1 μL~200 μL	
	Pipette CV	2 μL : <5%	200 μL: <1%
	Pipette Accuracy	2 μL: <±10%	200 μL: <±1%
PCR	PCR Temp. Range	4~99℃	
	PCR Temp. Accuracy	±0.3℃ at 55℃	
	PCR Temp. Uniformity	±0.2℃ at 72℃	
Temperature Control Module	Temperature Control Module Temp. Range	4~90℃	
	Temperature Control Module Temp. Accuracy	±1℃ at 55℃	
	Temperature Control Module Temp. Uniformity	±1℃ at 72℃	
Robot Arm Positioning Accuracy	±0.1mm		
HEPA System	99.99%@0.3μm filtration efficiency		
UV Lamp	Radiation dose higher than 100 000 μW.s/cm2		
Operating Environment Requirements	Temperature	19℃~25℃	
	Relative Humidity	20%RH~80%RH，non-condensing	
	Atmospheric Pressure	80~106kPa	
	Waterproof Rating	IPX0	
Power Type	100~240V，50/60HZ，1600VA		
Dimensions	Length 780mm,Width 725mm,Height 777mm		
Net Weight	130kg		

Ordering Information

Model	Product Name	Intended Market	Item NO.
MGISP-100RS	DNA Sequencing Library Preparation System MGISP-100RS	CE RUO	900-000206-00
MGISP-100	DNA Sequencing Library Preparation System MGISP-100	CE IVD	900-000207-00

MGI Tech Co., Ltd.

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MGI

Design for Massively Parallel Sequencing Library Preparation

- Automated
- Integrated
- Stabilized
- Customized

DNA Sequencing Library Preparation System
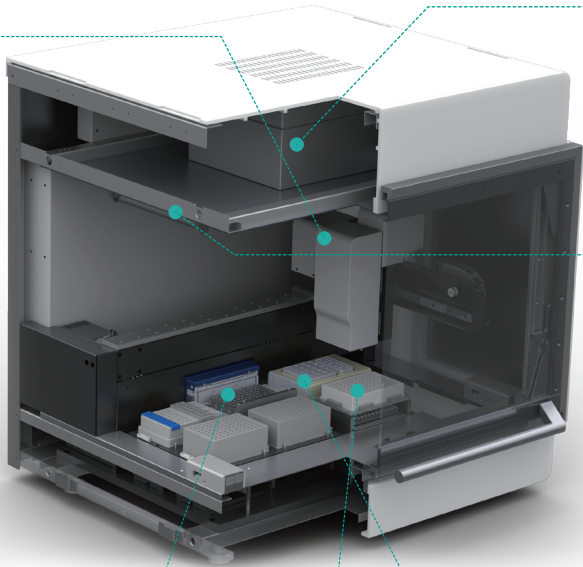
MGISP-100

MGI Tech Co., Ltd.

MGISP-100

MGISP-100 Automated Sample Preparation System is an automated liquid handling workstation specialized for MPS library preparation, it can process samples in batches, eliminate operators from repetitive processing procedures, increase the stability of library preparation, reduce the total costs, and significantly enhance laboratory overall efficiency.

8 channel Pipette

Accurate positioning, fast movement, high efficiency

Pipette Type	Fixed 8 channel pipette
Pipetting Range	1 μL~200 μL
Pipetting Precision	2 μL : <5% 200 μL: <1%
Pipetting Accuracy	2 μL: <±10% 200 μL:: <±1%
Posititioning Precicion of Robotic Arm	±0.1mm

HEPA system

Positive pressure
99.99%@0.3μm filtration efficiency

UV Disinfection

Integrated 2 UV lamps, ensure that each space of the instrument can obtain the same intensity of exposure

Radiation dose
higher than 100 000 μW.s/cm²

Automated PCR Machine

Precise temperature control

Temperature range	4~99℃
Temperature accuracy	±0.3℃ at 55℃
Temperature uniformity	±0.2℃ at 72℃

Automatic up/down Magnetic Rack

The magnetic rack can be up/down automatically.Avoid the mechanical gripper.Designed for more stable operation
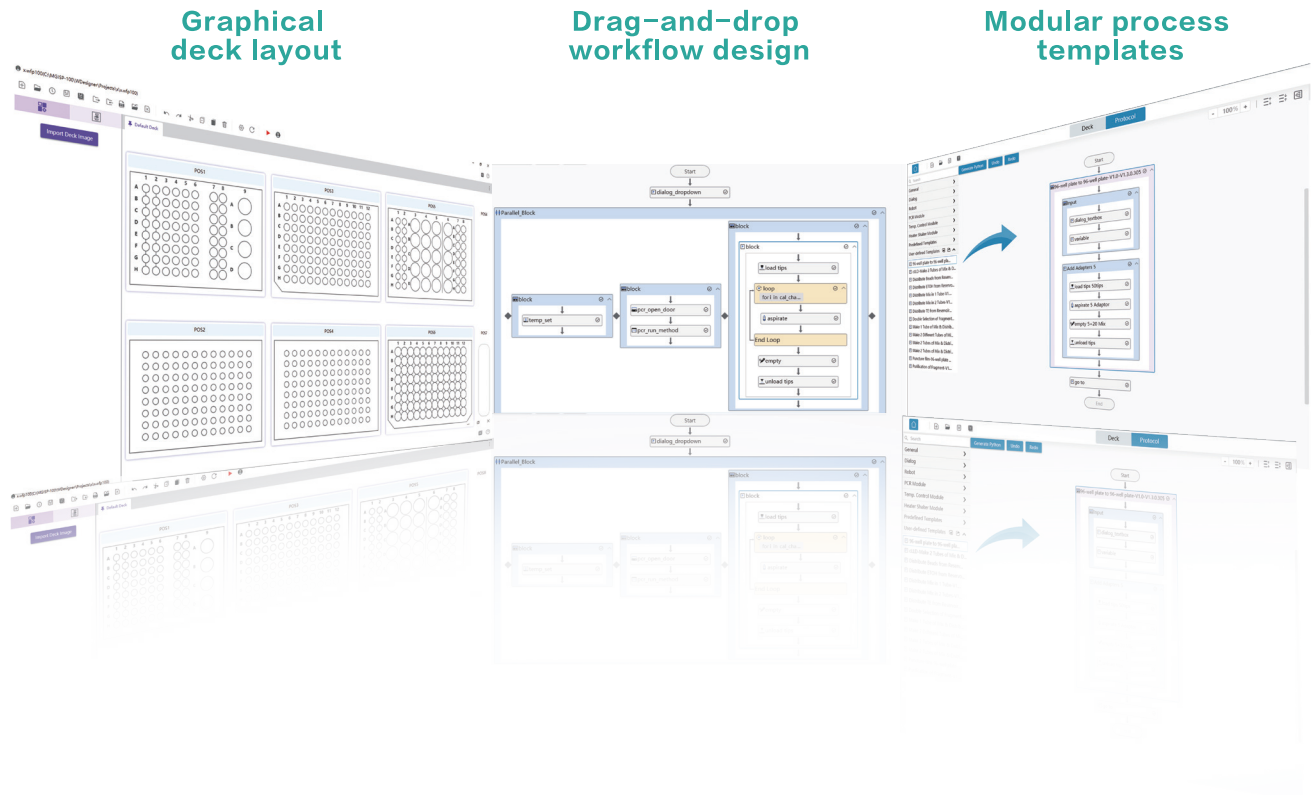
Temperature Control Module

Accurate temperature control, range from 4℃-90℃

Temperature range	4~90℃
Temperature accuracy	±1℃ at 55℃
Temperature uniformity	±1℃ at 72℃

Product Feature

Automated — Easy-to-use, automated 90% steps, reduce repetitive processing procedures.

Integrated — Compact design,integrated liquid handling, automated magnetic frame and PCR machine into less than 0.5m³.

Stabilized — Integrated UV lamp and HEPA system and minimum 1uL precise pipetting supported.

Customized — Support customized development according to different needs and applications, graphical drag-and-drop script editor, which is compatible with Python diverse script development.

WD graphical drag-and-drop script editor

Graphical deck layout   **Drag-and-drop workflow design**   **Modular process templates**

Automated Package for MPS Library Preparation

Samples → DNA extraction → Enzyme Fragmentation → End Repair → Adapter Ligation → Adapter Ligation Purification → PCR → PCR Purification → Quantification → Pooling → Circularization → Digestion → Purification → Quantification → DNB Making → Quantification → Sequencing

MGISP-100: 4.5 H → 0.5 H → 2 H → 0.5 H → 7.5H

Manual Operation: 10 H → 10H

*In the case of WGS

- MGISP-100 Time
- Manual Time