



Design for Massively Parallel Sequencing Library Preparation

 Automated

 Integrated

 Stabilized

 Customized



DNA Sequencing Library Preparation System

MGISP-100



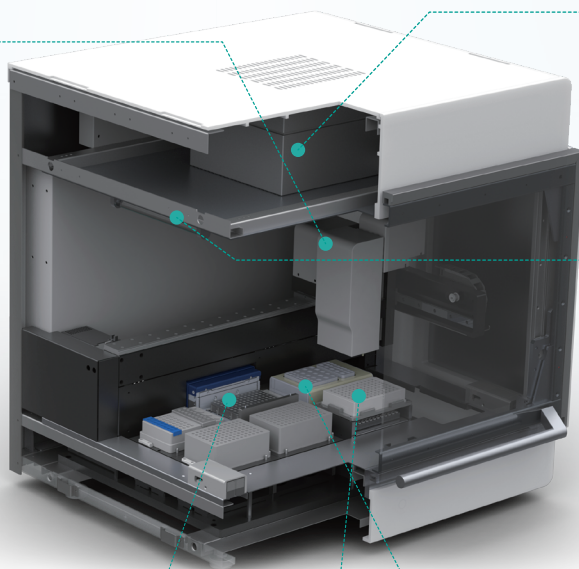
MGISP-100

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

8 channel Pipette

Accurate positioning, fast movement, high efficiency

Pipette Type	Fixed 8 channel pipette
Pipetting Range	2 μ L - 200 μ L
Pipetting Precision	2 μ L : <5% 200 μ L : <1%
Pipetting Accuracy	2 μ L : < \pm 10% 200 μ L : < \pm 1%
Positioning Precision of Robotic Arm	\pm 0.1mm



HEPA system

Positive pressure
ISO5 Class

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 μ W.s/cm²

Automated PCR Machine

Precise temperature control

Temperature range	4-99 $^{\circ}$ C
Temperature accuracy	\pm 0.3 $^{\circ}$ C at 55 $^{\circ}$ C
Temperature uniformity	\pm 0.2 $^{\circ}$ C at 72 $^{\circ}$ C

Automatic up/down Magnetic Rack

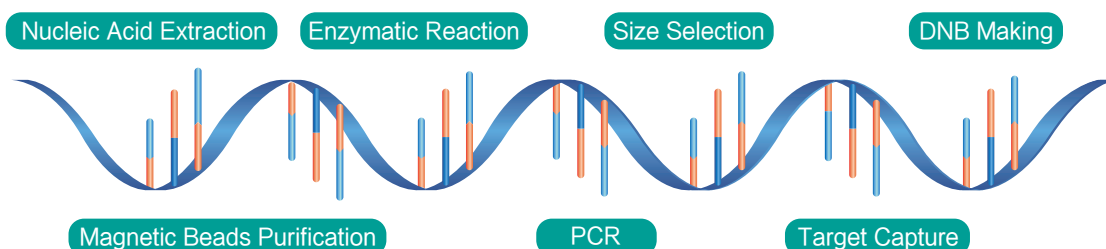
The magnetic rack can be up/down automatically. Avoid the mechanical gripper. Designed for more stable operation

Temperature Control Module

Accurate temperature control, range from 4 $^{\circ}$ C - 90 $^{\circ}$ C

Temperature range	4-90 $^{\circ}$ C
Temperature accuracy	\pm 1 $^{\circ}$ C at 55 $^{\circ}$ C
Temperature uniformity	\pm 1 $^{\circ}$ C at 72 $^{\circ}$ C

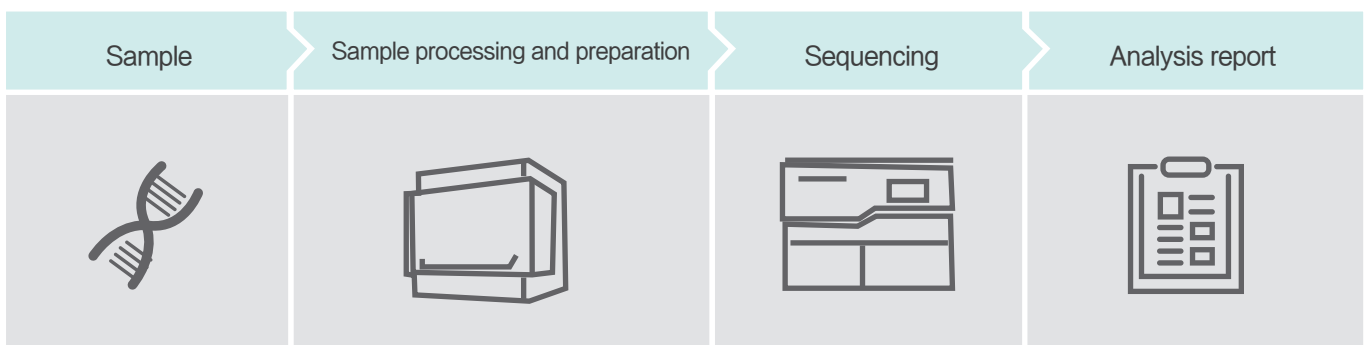
Product Function



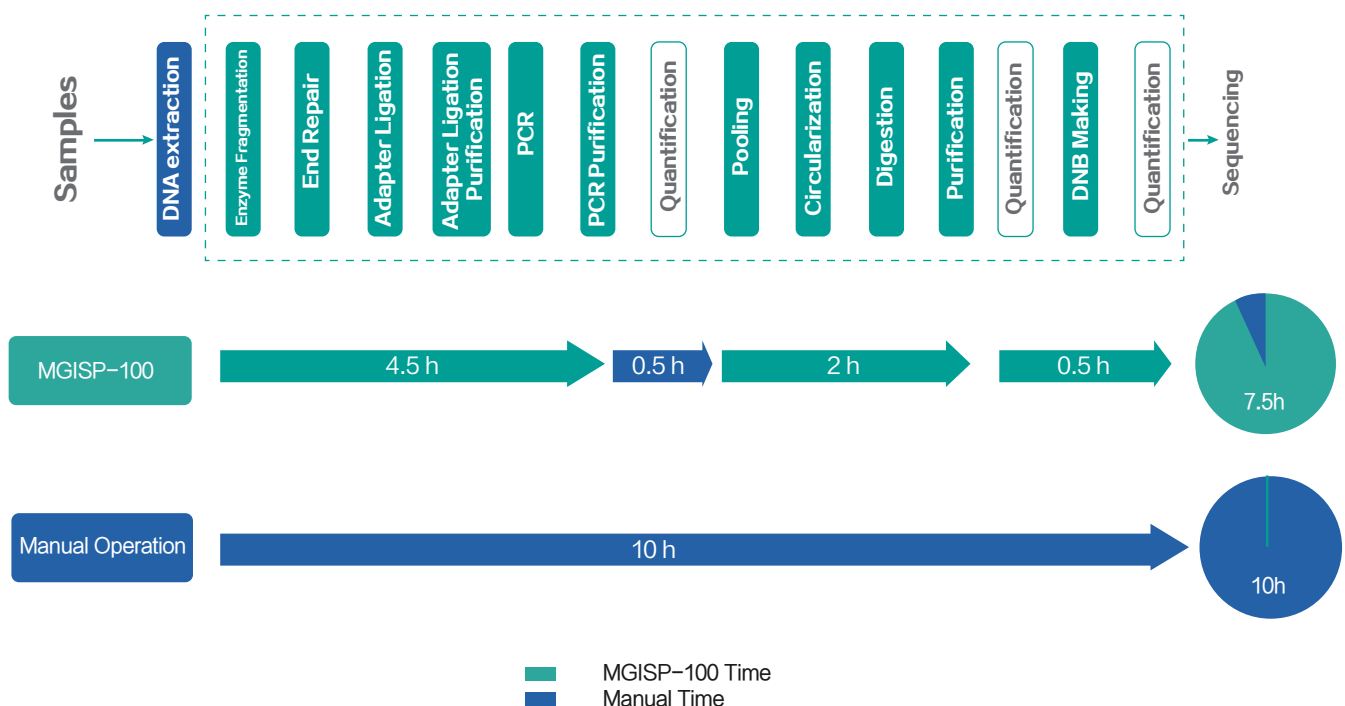
Product Feature

- Automated** Easy to use, automated 90% steps, eliminate operators from 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, verified most MGI library preparation kit.
- Customized** Support customized development according to different needs and applications.

Automated Solution for MPS Library Preparation



*In the case of WGS



Performance Parameter

Pipette	Pipette Type	Fixed 8 channel	
	Pipette Range	2 μ L~200 μ L	
	Pipette CV	2 μ L : <5%	200 μ L : <1%
	Pipette Accuracy	2 μ L : < \pm 10%	200 μ L : < \pm 1%
PCR	PCR Temp. Range	4~99 $^{\circ}$ C	
	PCR Temp. Accuracy	\pm 0.3 $^{\circ}$ C at 55 $^{\circ}$ C	
	PCR Temp. Uniformity	\pm 0.2 $^{\circ}$ C at 72 $^{\circ}$ C	
Temperature Control Module	Temperature Control Module Temp. Range	4~90 $^{\circ}$ C	
	Temperature Control Module Temp. Accuracy	\pm 1 $^{\circ}$ C at 55 $^{\circ}$ C	
	Temperature Control Module Temp. Uniformity	\pm 1 $^{\circ}$ C at 72 $^{\circ}$ C	
Robot Arm Positioning Accuracy	\pm 0.1mm		
HEPA System	ISO5		
UV Lamp	Radiation dose higher than 100 000 μ W.s/cm ²		
Operating Environment Requirements	Temperature	19 $^{\circ}$ C~25 $^{\circ}$ C	
	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

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