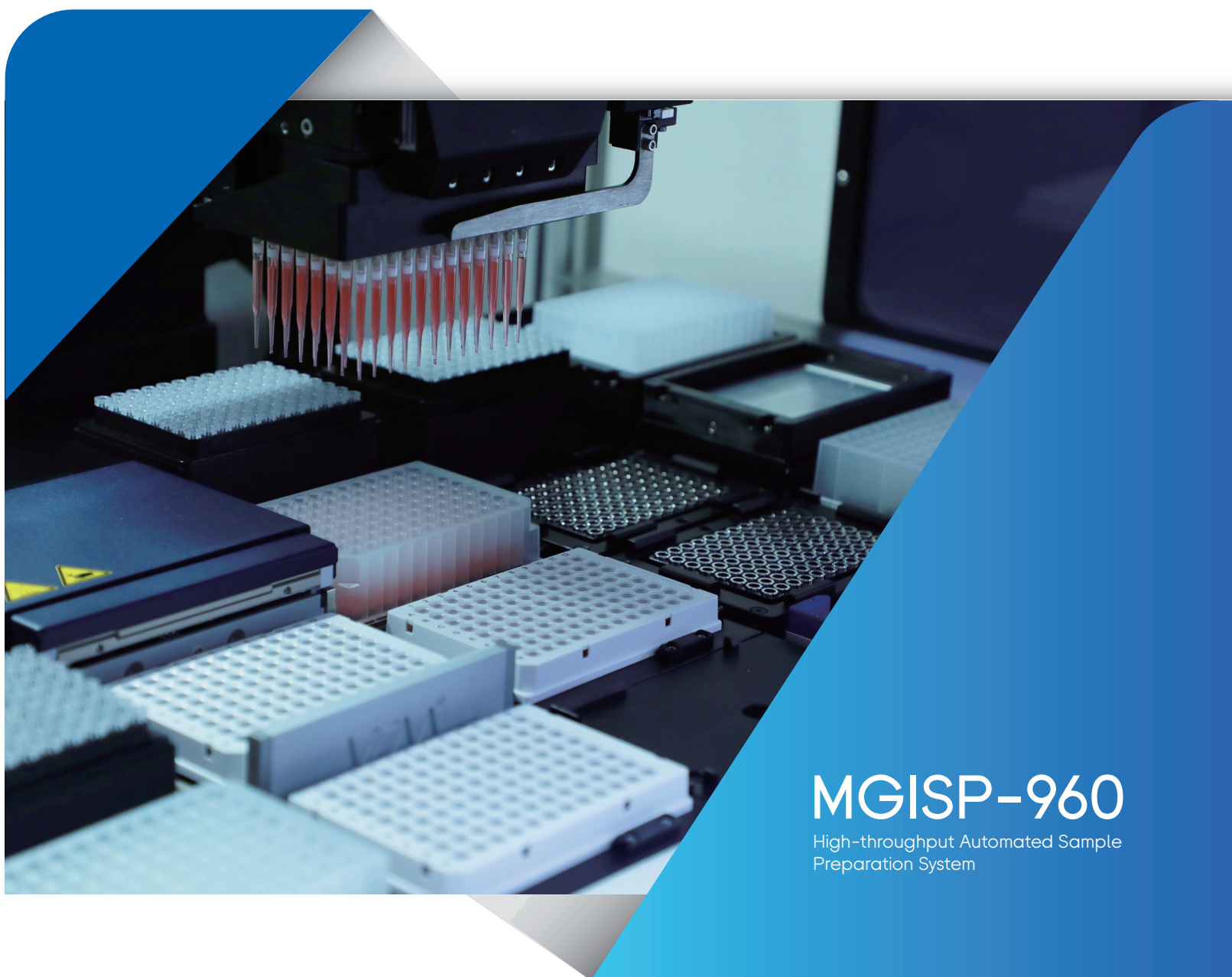




# Automation Package

Massive Parallel Sequencing Library Preparation



## MGISP-960

High-throughput Automated Sample  
Preparation System

# Various integrated functions and preset automated processes

Applicable reagent kits



## Vazyme

DNA Library Preparation /02

RNA Library Preparation /05

## Agilent Technology

WES Library Preparation /06

## Paragon Genomics

Multi-PCR Library Preparation /07



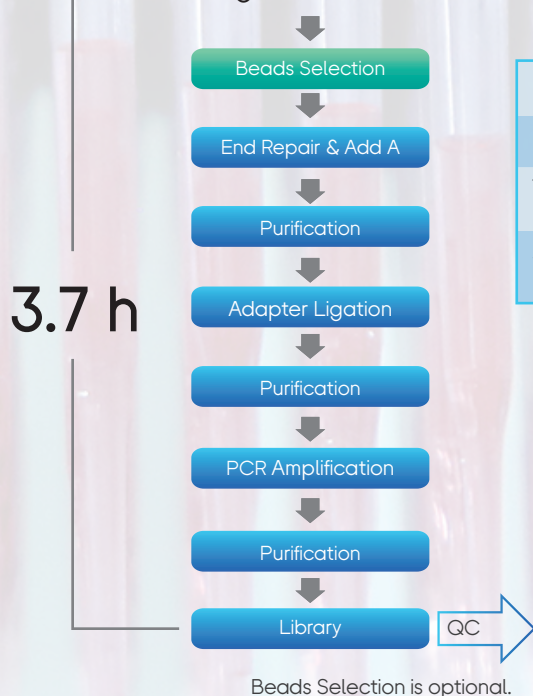
## DNA Library Preparation

Your exclusive sample preparation workstation

# MGISP-960



Fragmented DNA



	MGISP-960	Manual Operation
Library Prep Duration	3.7 h/run	About 5 h/run
Duration Details	0.2 h (Manual) + 3.5 h (Auto)	All Manual
Throughput	96 samples/run, 1 MGISP-960	≤16 samples/run, 1 Person
Stability	High	Depends on the operator's proficiency and other factors

Recommended configurations | Cat. No.: 900-000107-00

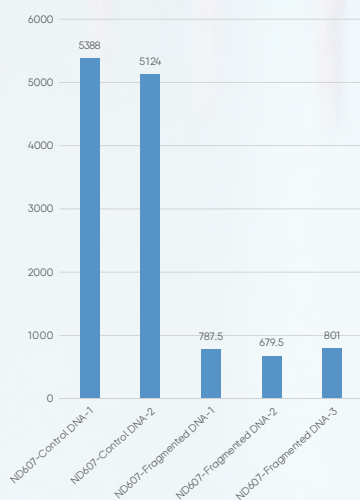
- ☒ MGISP-960
- ☒ 1 Shaker
- ☒ 1 Temperature Control Module
- ☒ 1 PCR
- ☒ 1 Magnetic Frame
- ☒ 1 Higher Position
- ☒ 1 Lower Position



VAHTS Universal DNA Library Prep Kit for Illumina V3

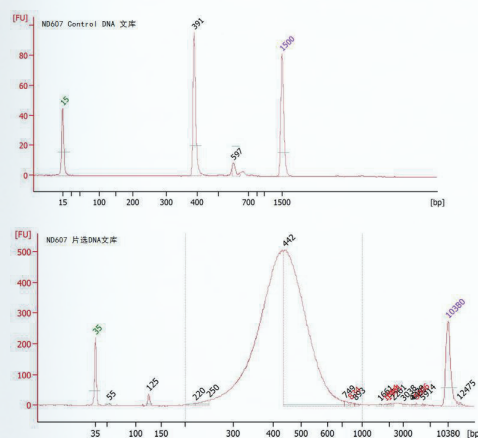
## Performance

Total amount of libraries (ng)

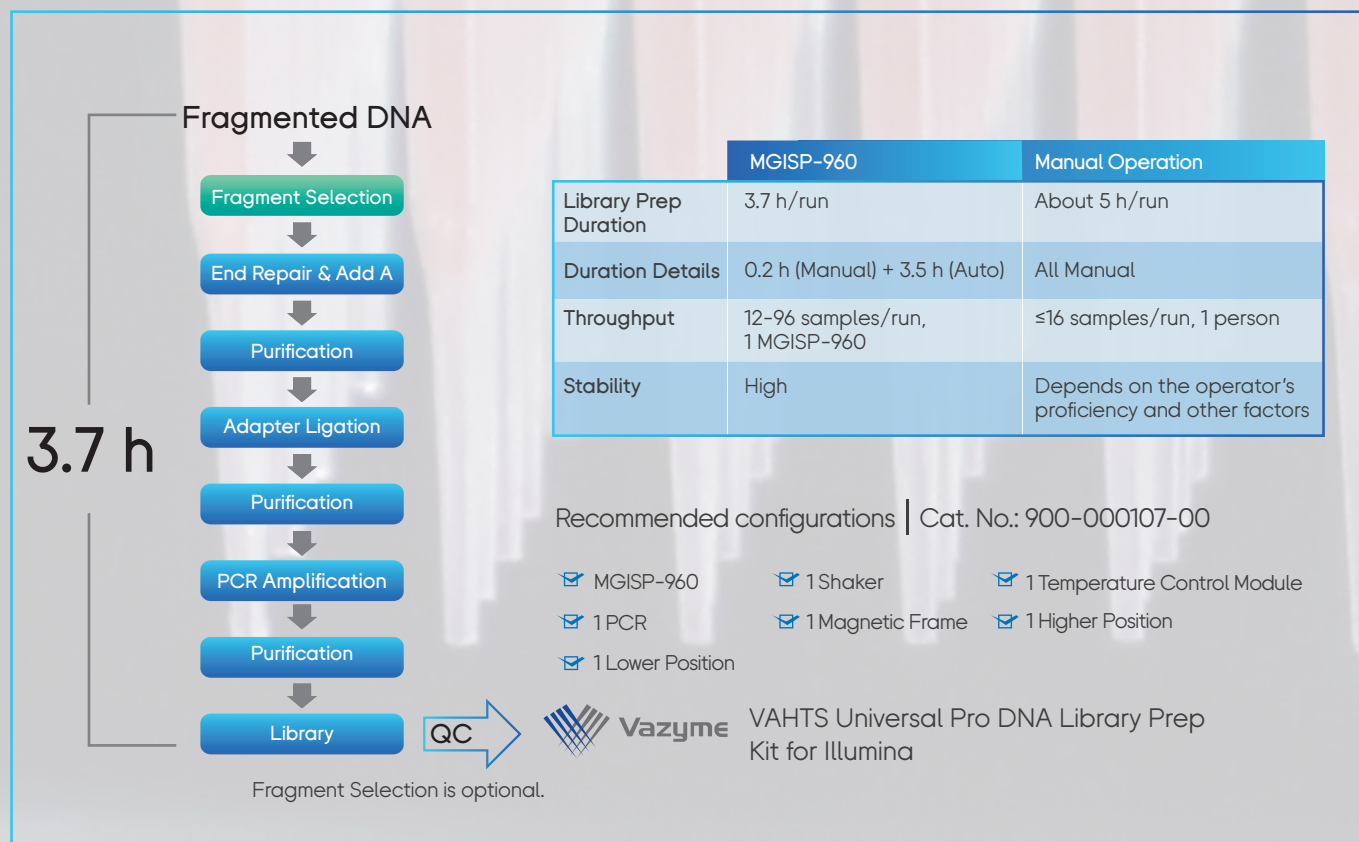


Input amount of control DNA is 80 ng, with 8 PCR amplification cycles; Fragmented DNA is the interruption products of human DNA, with 8 PCR amplification cycles.

Automated testing is performed using control DNA and human DNA. The results show that qualified and stable libraries and fragments can be obtained by using MGISP-960.



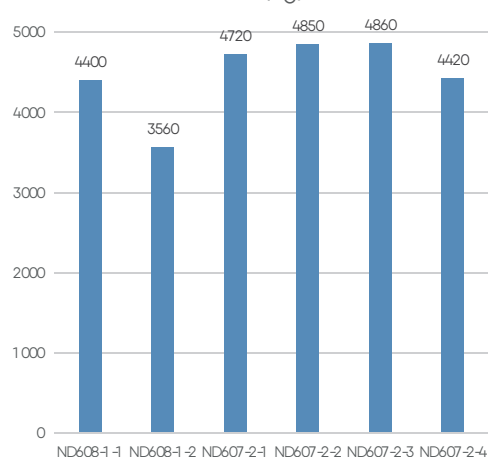
# Highly efficient and flexible automated library preparation



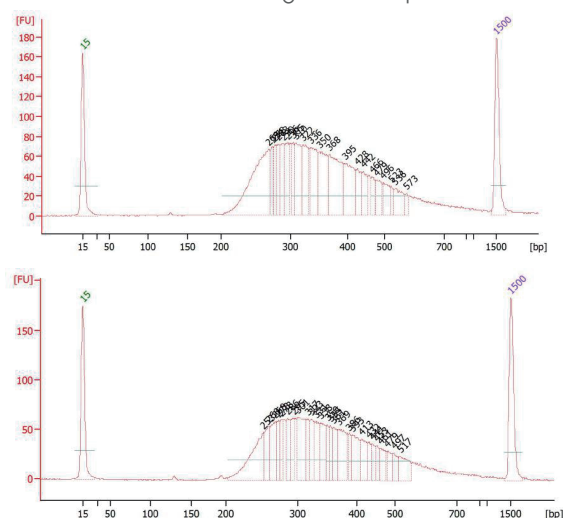
## Performance

Automated testing is performed using human DNA and the test is repeated 4 times. Twice of the test is repeated in batch. The results show that qualified and stable libraries can be obtained by using MGISP-960.

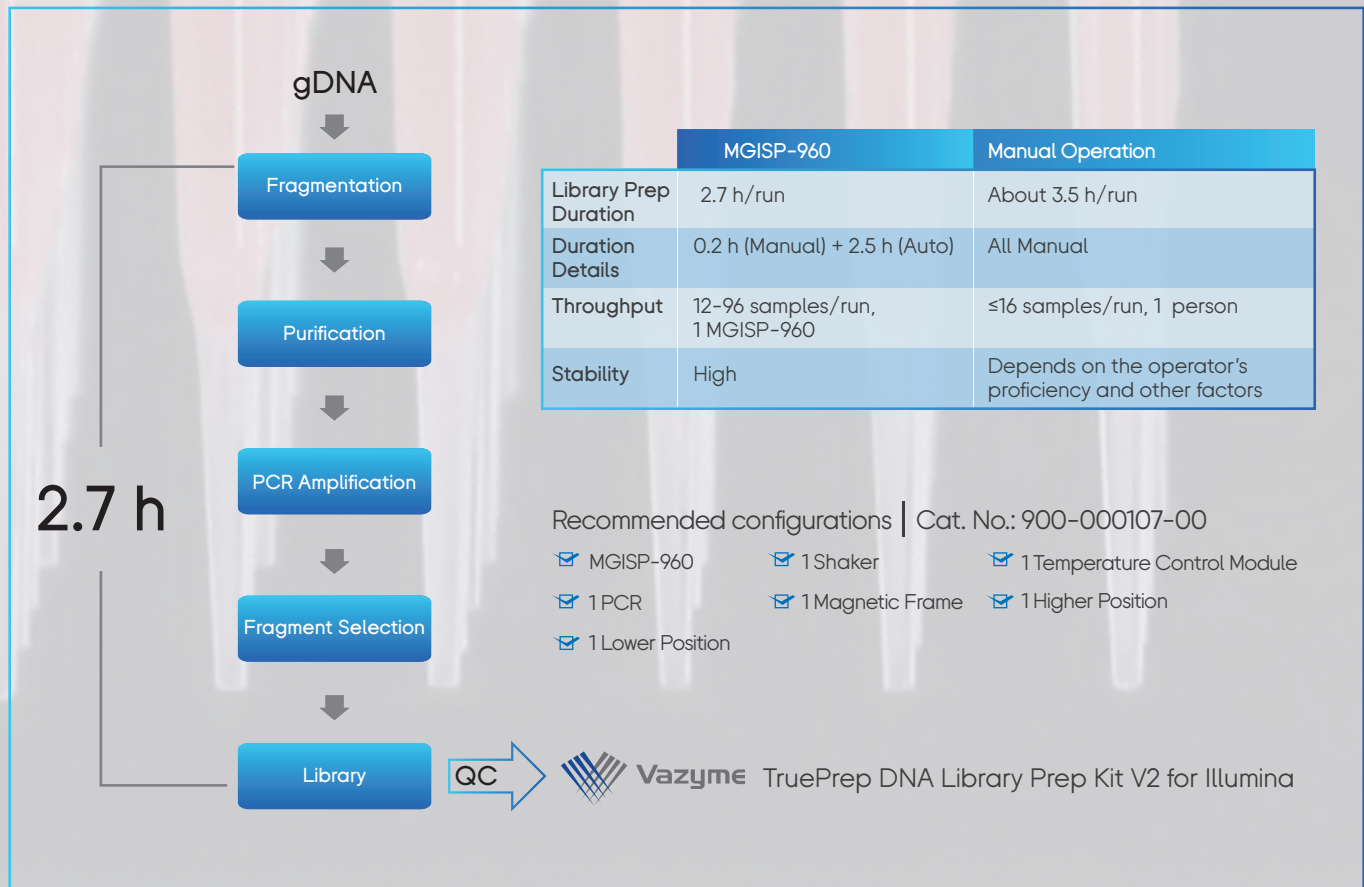
Total amount of libraries (ng)



Concentration and fragment are qualified



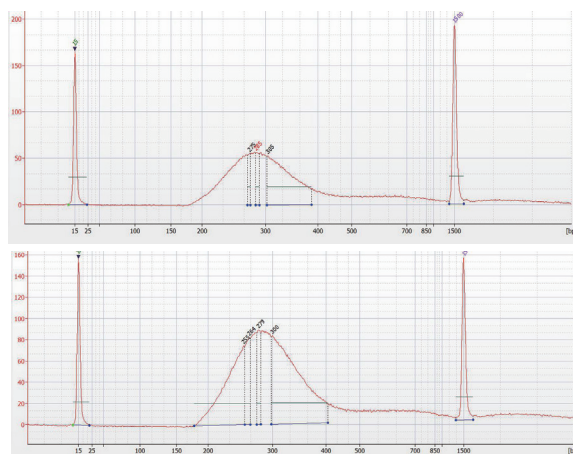
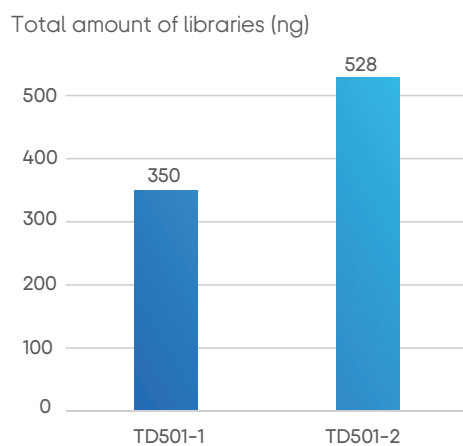
# Fully automated DNA library preparation



## Performance

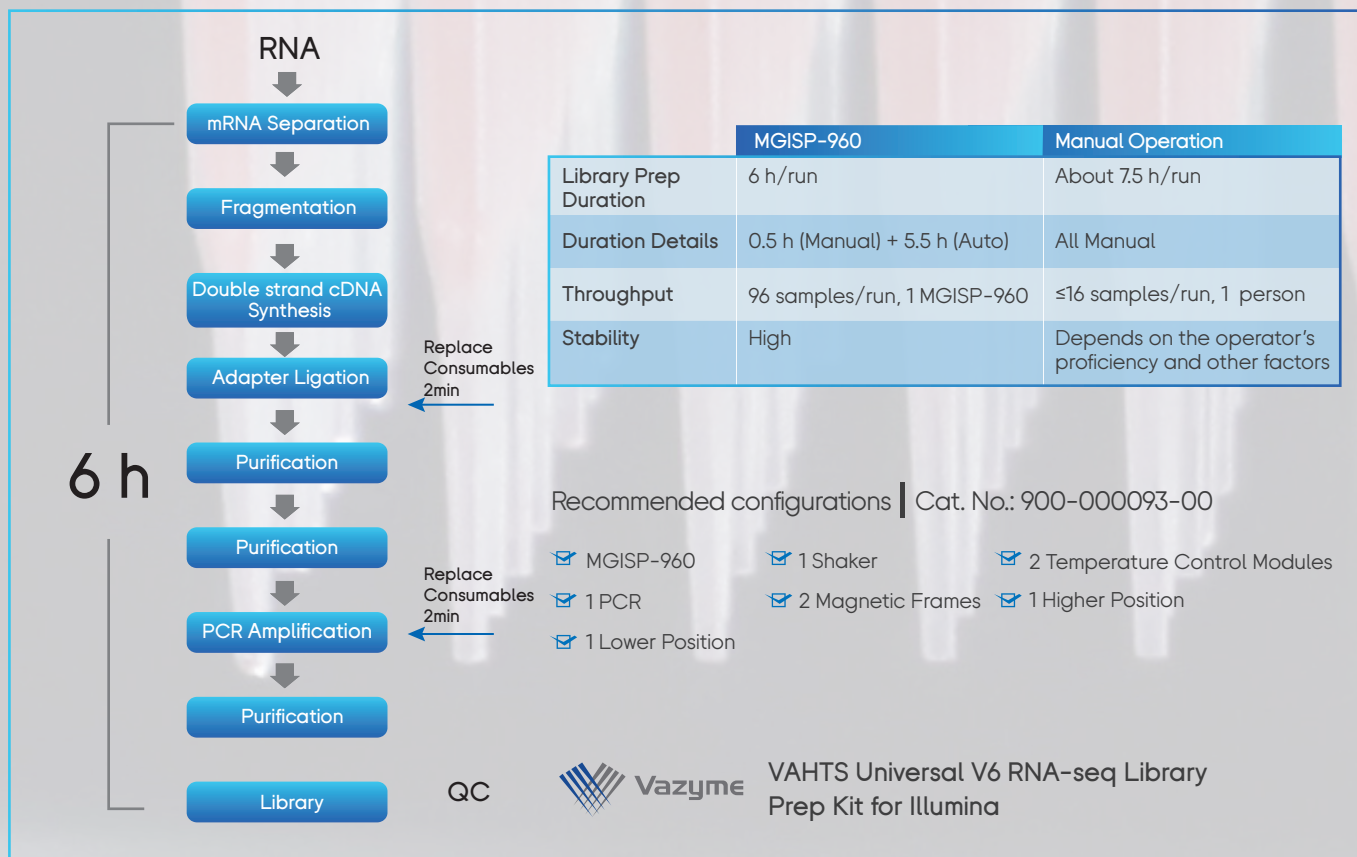
Automated testing is performed using human DNA and the test is repeated 2 times; with the input amount of 50 ng, in 9 PCR amplification cycles.

Concentration and fragment are qualified





# Automated RNA library preparation

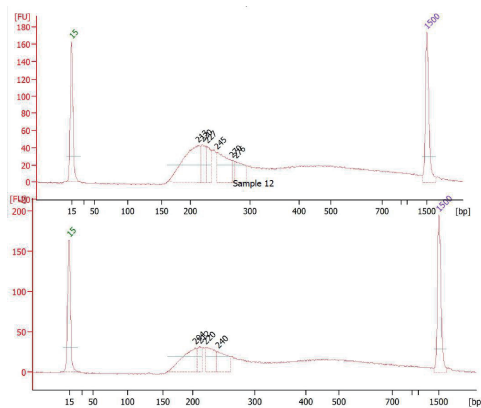
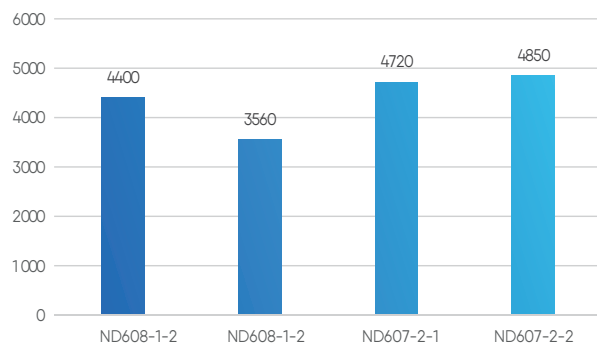


## Performance

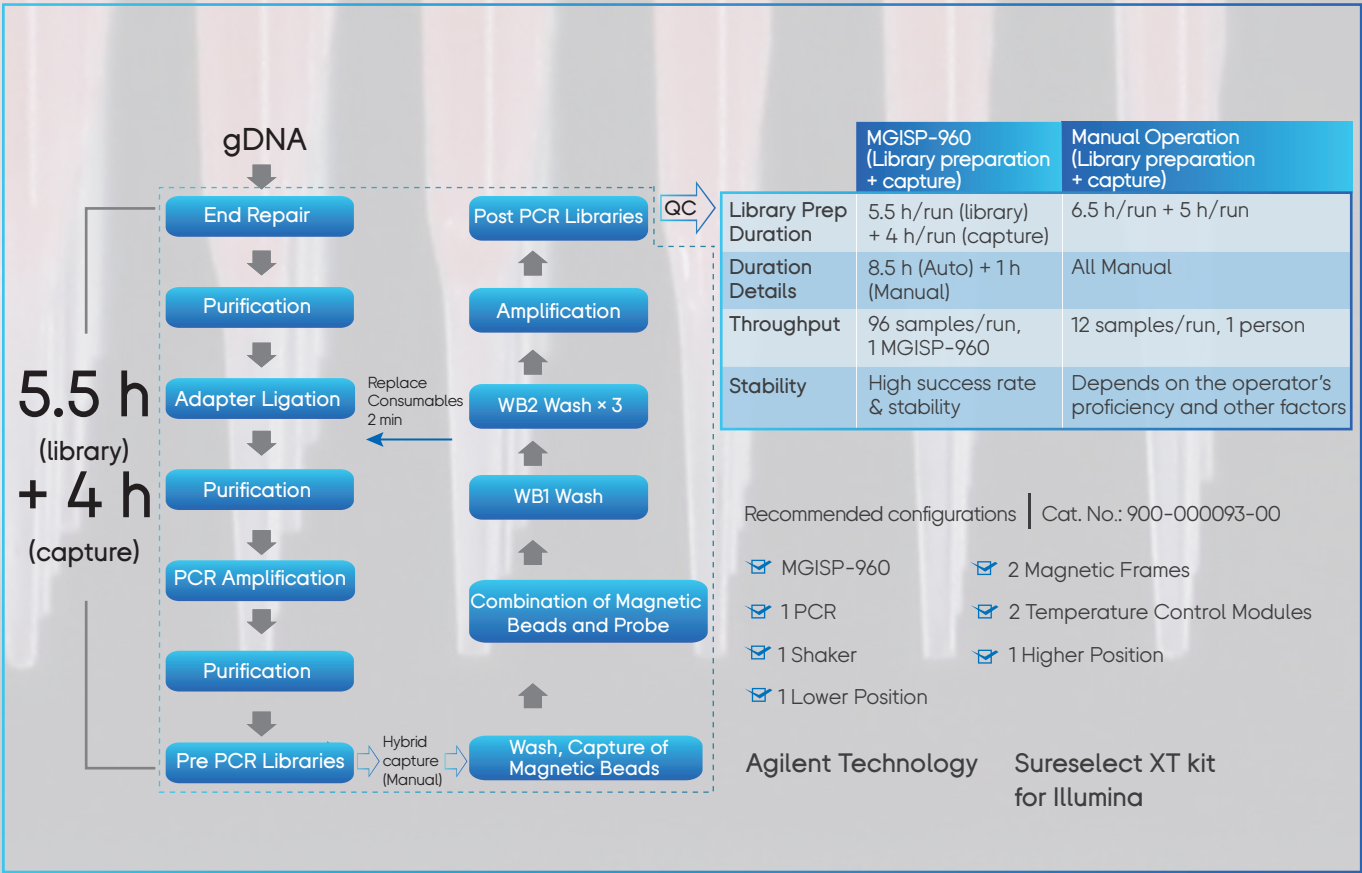
Human total RNA (260/280=1.79, 260/230=2.34) are used for automated test, with 4 repeated tests, input amount of 1 µg, and 15 PCR amplification cycles.

Concentration of library prep and fragment are qualified and stable

Total amount of libraries (ng)



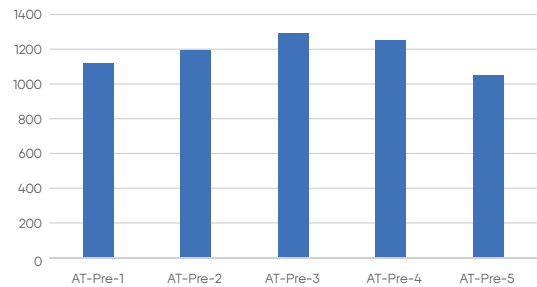
# Automated hybrid capture (8x speedup)



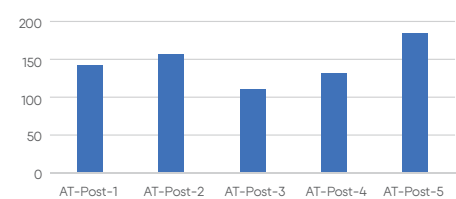
## Performance

Human gDNA is used for automated test, with 5 repeated tests of library preparation. Pre-PCR and Post-PCR libraries are qualified and stable.

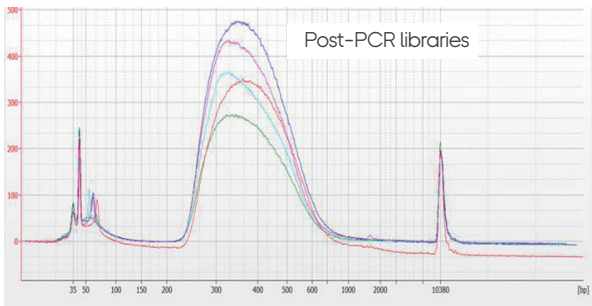
Total amount of libraries (ng)



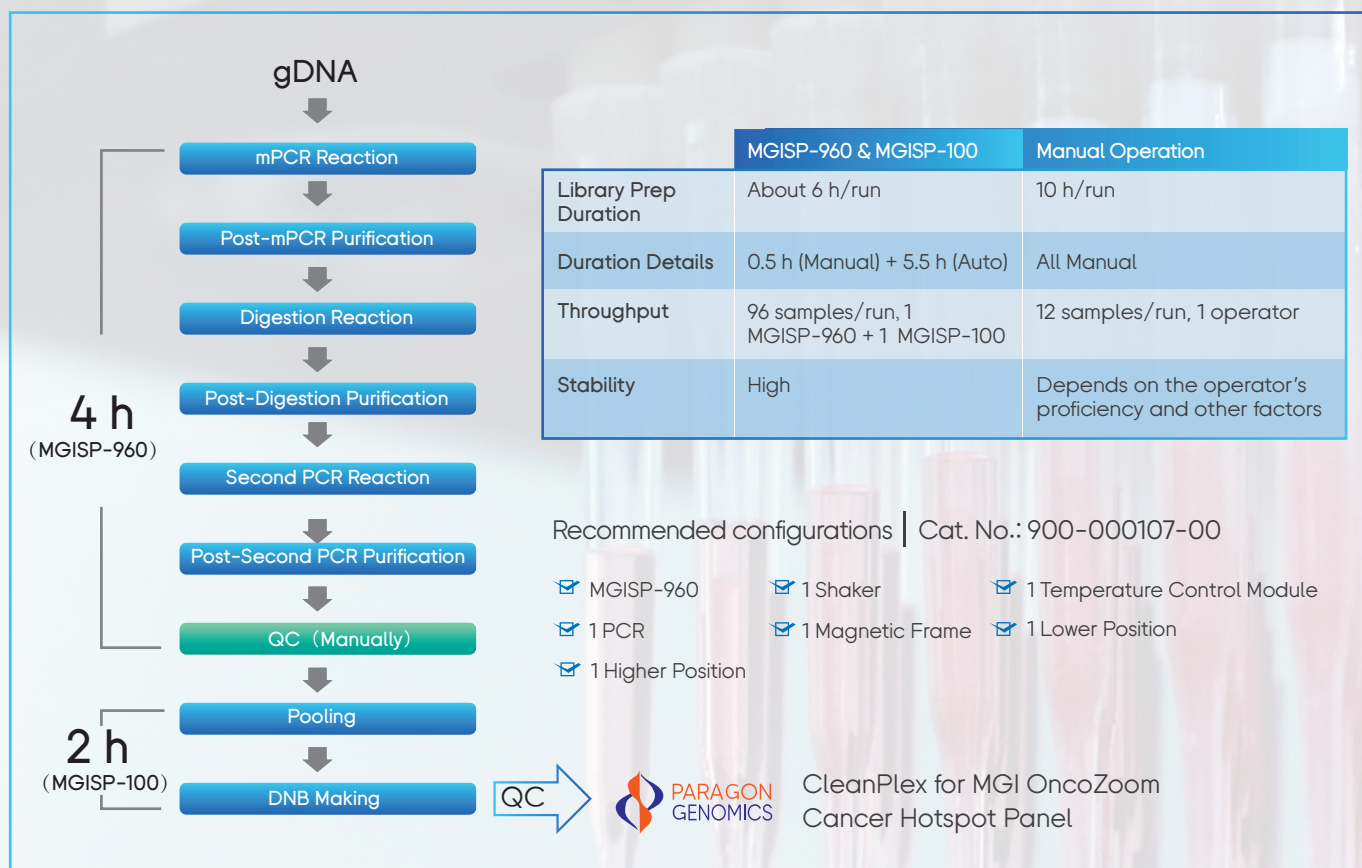
Total amount of libraries (ng)



Concentration and fragment are qualified



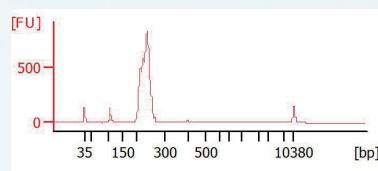
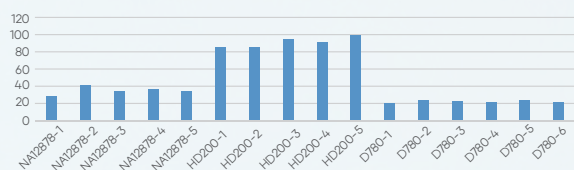
# Automated tumor detection



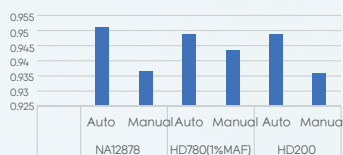
## Performance

Three types of standards are used for automated test. The library preparation products for the samples are stable and qualified in concentration. The sequencing results show that capture efficiency of MGISP-960 surpasses that of manual operation, and the mutation rate test results of MGISP-960 and manual operation are consistent and qualified.

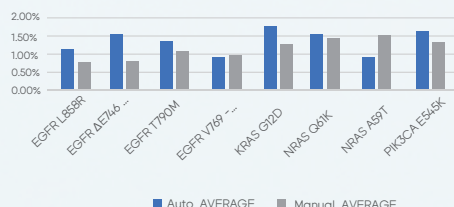
Total amount of libraries (ng)



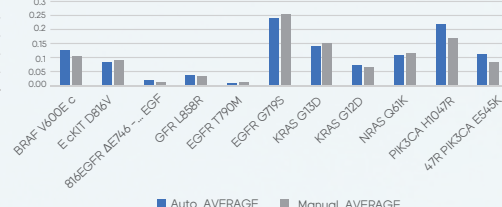
Capture\_Rate



HD780(1% MAF) (cfDNA)



HD200 Standard (FFPE)





## System specifications

Throughput	96 samples per run		
Sample Type	Plasma, saliva, FFPE, gDNA, WGA products, etc.		
Pipette Range	2 µL to 200 µL		
Pipette Accuracy	Volume	2 µL	200 µL
	CV	< 5%	< 1%
	Accuracy	< ±10%	< ±1%
Robotic Arm Positioning Accuracy	±0.1 mm		
Temperature Range	PCR	4 °C to 99 °C	
	Temperature Control Module	4 °C to 90 °C	
Temperature Accuracy	PCR	±0.3 °C at 55 °C	
	Temperature Control Module	±1 °C at 55 °C	
Temperature Uniformity	PCR	±0.2 °C at 72 °C	
	Temperature Control Module	±1 °C at 72 °C	
Working Environments	Temperature	19 °C to 25 °C	
	Relative Humidity	20% RH to 80% RH, non-condensing	
	Atmospheric Pressure	80 kPa to 106 kPa	
	Maximum Altitude	2000 m	
Power Requirements	Power Type	200 V to 240 V~, 50/60 Hz	
	Rated Power Consumption	Less than 2000 VA (for standard configuration)	
Net Weight	250 kg		
Dimensions	1240 mm × 740 mm × 1110 mm		

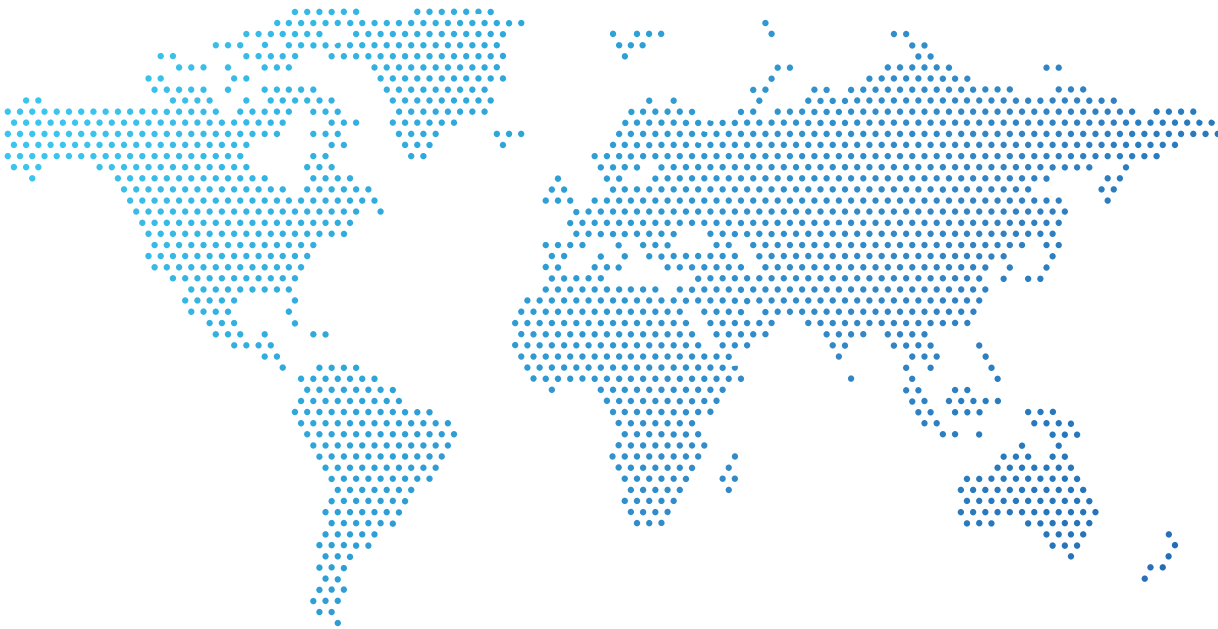
## Ordering information

Model	Target market	
MGISP-960	China & overseas IVD**	<ul style="list-style-type: none"> <li>Standard configuration includes: PCR, magnetic rack, vortex mixer, and temperature control model. We can customize the configurations depending on your needs. Before you place an order, please contact local sales representative.</li> <li>**China IVD models are not available for ordering currently.</li> </ul>
MGISP-960RS	China & overseas RUO	

## Technical Support & After-sales Service

Global technical support network to provide customers with efficient and high-quality after-sales service of the manufacturer:

- One-stop service includes device installation, maintenance, repair, training, and compliance verification;
- Fast and on-demand script development seamlessly transforms your existing workflow to an automated platform;
- Exemption of labor, parts, and travel expenses for failures caused by quality or design during the warranty period;
- Various extended warranty products to match your needs and budget, to maximize your instrument output.



## Contact Us

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