| Sample Transfer Processing System

MGISTP-3000
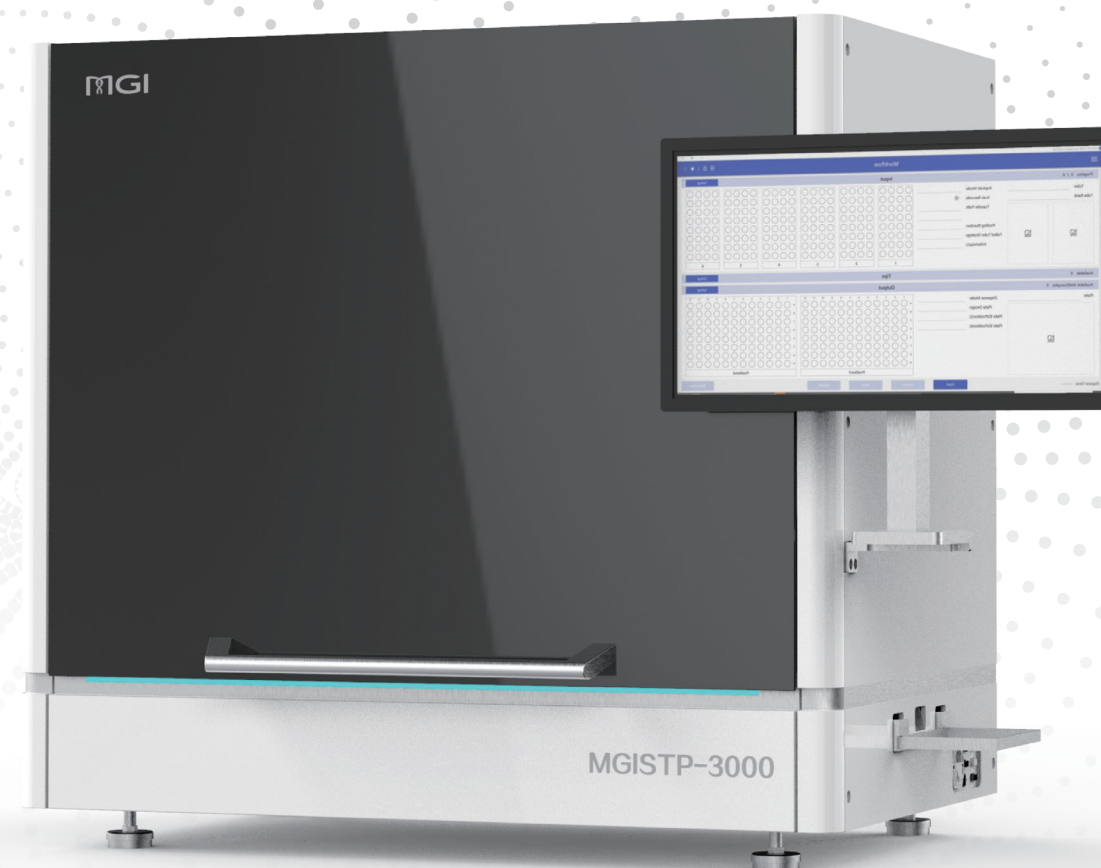
Sample Transfer, Only One-click

MGI

| Sample Transfer Processing System

MGISTP-3000

Sample Transfer, Only One-click

Sample Transfer, Only One-click

MGISTP-3000 is a benchtop automated sample transfer processing system, which can complete transferring 96 samples from sealed tubes to a 96-well microplate in 40 minutes fast and accurately.

In the pre-processing of microbial detection, it replaces manual operations, shortens processing time, avoids contamination exposure, and automates the entire process.

Barcode Scan
HEPA+UV

Auto barcode identification → Auto decapping → Auto pipetting → Auto recapping

Sampling → Sample information entry → 96-well microplate → Auto recycling
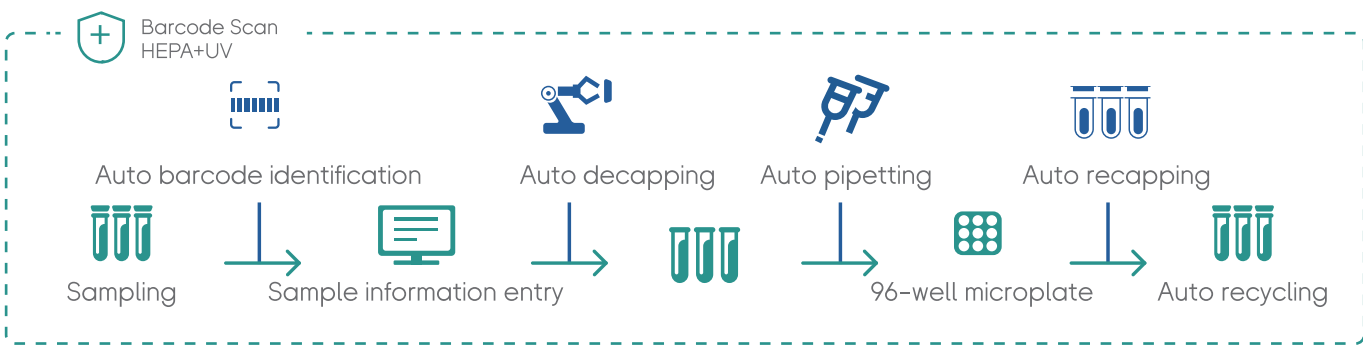
Product Features

1 Highly integrated system
- Beyond the pipetting function, it also integrates barcode identification, tube decapping, tube recapping, and tube recycling to meet the need for automated liquid transfer of dangerous samples.

2 Reliable and robust design
- An XYZ-axis robotic arm with accuracy of ±0.1 mm.
- The robot arm grasps the tube body to avoid the risk of the tube falling.

3 Good compatibility, ideal for various tube types
- Compatible with HPV tubes, stool tubes, other virus sampling tubes, etc.
- Config1: Diameter: 11-16 mm, Height: 55-121 mm, Volume: 5-15 mL
- Congfig2: Diameter: 31-36 mm, Height: 56-121 mm, Volume: 20-30 mL

4 Detection of anomalies
- Equipped with infrared sensors and out-of-step detection to identify unopened tubes
- It can automatically recognize scanning errors and unopened sample tubes to avoid interrupting current process

5 Auto identification
- Compatible with 1D and 2D barcodes, automatic recording barcodes and sample position information
- Compatible barcode formats include 1D: Code 128, Code 93, EAN-8, EAN-13, and Codebar; 2D: Data Matrix，QRCode Model 2

6 Accurate and reliable pipetting
- Equipped with a single-channel pipetting module, the pipetting range is 10-1000 µL
- Equipped with disposable filter tips to prevent aerosol contamination

7 Automation compatibility
- Samples are transferred into ANSI/SBS microplates ≤100 mm in height, which can be used in various pipetting workstations and extraction instruments.
- Support customization of liquid transfer positions and setting the positions of negative and positive control samples.
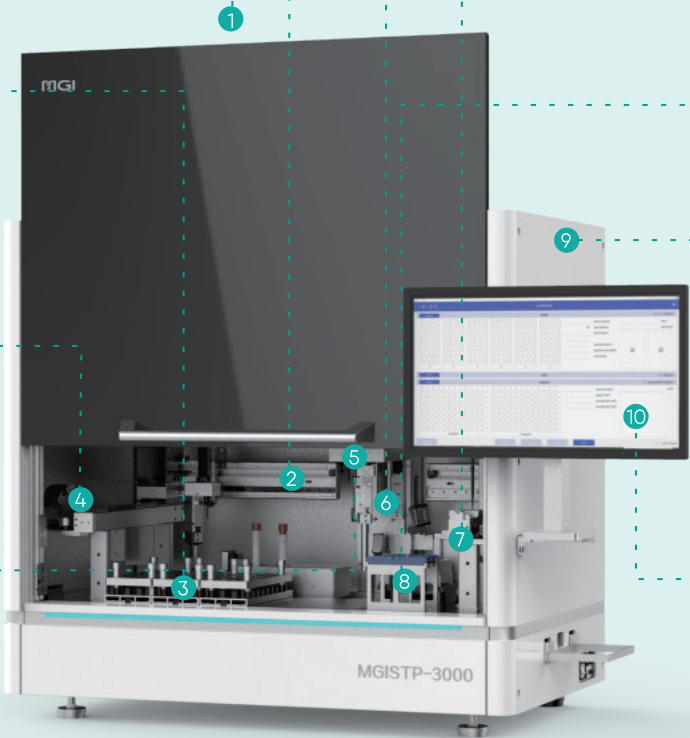
8 Safe and leak-free
- Built-in independent supply air HEPA filtration system to prevent external pollution
- The exhaust air HEPA filter provides 99.995% effect at 0.3 µm. System create a negative pressure environment to prevent the leakage of infectious aerosols.
- Internal air extraction ports are located in the lid opening area and sample transfer area to ensure rapid extraction of generated aerosols.

9 Convenient disinfection
- Equipped with three 8W UV lamps, radiation dose is more than 100,000 µW.s/cm^2
- Include a pre-programmed cleaning wizard that guides the users to start the disinfection process to kill viruses and bacteria.
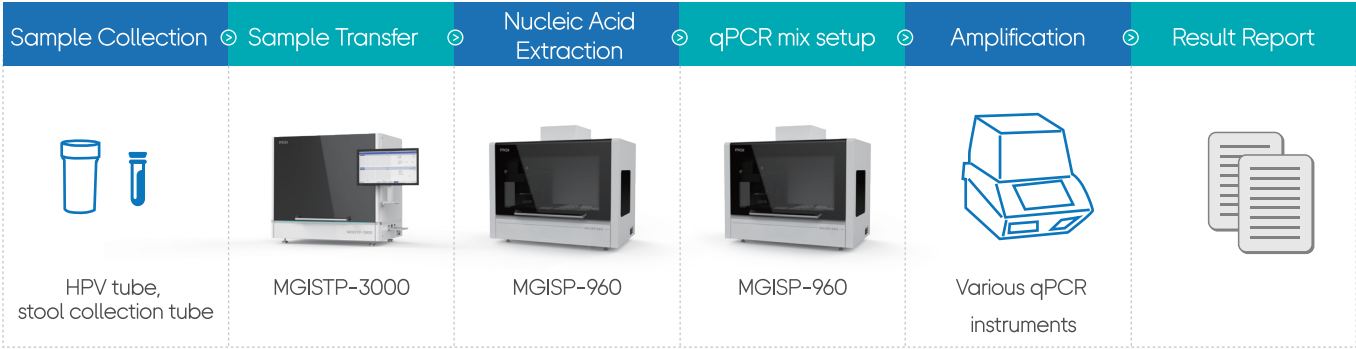
10 Easy-to-use software
- Equipped with a 23-inch touchscreen, with an easy-to-use GUI
- A [simulation] function is provided to help learn software functions
- Provide consumable library management, correct tubes can be selected according to consumable parameters and images
- The running status and results can be displayed in real-time during operation
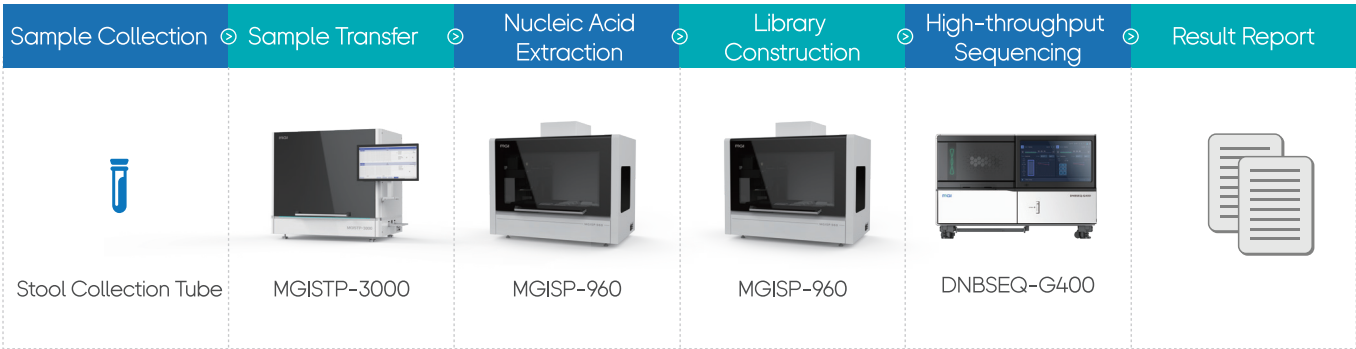
Compatible Platforms

HPV/bowel cancer screening product combination

Sample Collection	Sample Transfer	Nucleic Acid Extraction	qPCR mix setup	Amplification	Result Report
HPV tube, stool collection tube	MGISTP-3000	MGISP-960	MGISP-960	Various qPCR instruments	

MMHP product combination

Sample Collection	Sample Transfer	Nucleic Acid Extraction	Library Construction	High-throughput Sequencing	Result Report
Stool Collection Tube	MGISTP-3000	MGISP-960	MGISP-960	DNBSEQ-G400	

Product Parameters

Dimensions	1100 mm (W)×680 mm (D)×1050 mm (H)	
Weight	<200 Kg	
Power	Voltage	100 - 240 V
	Hz	50/60 Hz
	Rated Power	600 VA
	Temperature	19℃ ~ 25℃
Operating Environment	Humidity	20% RH ~ 80% RH, Non-condensing
	Atmospheric Pressure	80 kPa ~ 106 kPa
Application Parameters	Throughput	96 Samples/40 min
Pipetting Precision	Pipetting Method	Air Displacement
	Pipetting Channel	Single Channel
	Pipetting Range	10 μL–1000 μL
	CV	10 μL：<5%；100 μL：<2%；1000 μL：<1%
	Accuracy	10 μL：<±10%；100 μL：<±5%；1000 μL：<±2%
Robot Arm Accuracy	X-Y-Z: ±0.1 mm	
Barcode Scanner	One 1D & 2D Scanner Sensors	
Operation Interface	GUI with Touch Screen	
Protection	UV Light	3×8 W
	Filter	HEPA 99.995% at 0.3μm
Tube Compatibility	Config 1: 5-15 mL Sampling tubes; Config 2: 20 mL HPV tubes	

Ordering Information

● Config 1

Number	Product name	Specification
900-000403-00	MGISTP-3000RS Sample Transfer Processing	Set, CE RUO

● Config 2 (HPV tube)

Number	Product name	Specification
900-000804-00	MGISTP-3000RS Sample Transfer Processing	Set, CE RUO

Sample Rack

Number	Product name	Specification
510-001234-00	Rack A	EA
510-001236-00	Rack B	EA
510-001235-00	Rack C	EA
510-001347-00	Rack D	EA
510-001453-00	Rack E	EA
510-001452-00	Rack F	EA
012-000905-00	Rack H	EA

Consumables

Number	Product name	Specification
1000025011	1000 μL black conductive tips, sterile, filtered(5-pack)	96*5/Pieces,8 Pieces/Case
1000023970	1000 μL Tips, Transparent , Filtered, Suspended	96/rack, 16 racks/case
091-000020-00	1000 μL Black Conductive Tips, Sterile, Filtered (Wide-Bore)	96/rack, 16 racks/case
1000004644	1.3 mL U-bottom Deepwell Plate	2 plates/bag

◎ Technical Support Available Globally

Local technical support and Customer Experience Centers (CECs) have been established in multiple countries and regions worldwide to ensure timely and effective technical support and training.

Local warehouses and spare part centers have been established in multiple countries and regions worldwide to ensure the continuous availability of machine parts for maintenance.

Online technical support is available globally with a fully functional call center (Toll-Free Hotline 4000-688-114) accessible during workdays from 9:00 AM-12:00 PM and 13:00 PM-18:00 PM (Beijing time, GMT+8).

Providing installation services and system verification services as needed to ensure smooth implementation and operation. The value-added services are available for personalized services such as secondary relocation.

Responsible for any failure caused by non-human factors and non-force majeure factors within the warranty.

Providing instrument preventive maintenance services within the warranty period, along with a host of available extended warranty support plans to ensure optimal performance and reliability.