40 min | **192 Samples**

High-throughput, High integrated,
User-friendly, Maximizing testing efficiency!
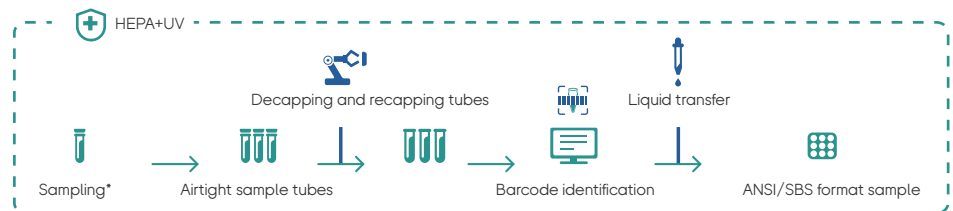
MGISTP-7000

MGISTP-7000

Your High-throughput Automated
Sample Transfer Processing system

MGISTP-7000

MGISTP-7000 is our newest high-throughput automated sample transfer processing system. It integrates tube decapping, tube recapping, barcode identification, automated liquid transfer and negative pressure protection. It decreases steps and delivers the quality and reliability you expect. You can transfer 192 samples from screw cap transport tubes or plain tubes to 96-Well Microplates in 40 minutes.

Two channel independent pipette heads, offer a volume range from 10uL to 1000uL. Enabling flexibility efficiency, safety and process quality. All the steps are integrated in a closed and negative pressure system. Two HEPA-filtration and one UV light ensure a safer working environment for both liquid transfer and lab technicians.

HEPA+UV

Decapping and recapping tubes   Liquid transfer

Sampling*   Airtight sample tubes   Barcode identification   ANSI/SBS format sample

1 Load original sample with cap

Load Airtight sample tubes into a standard rack and reduce exposure to samples.

2 Automatically scan the code and open the cap

One Epson robot arm, four recap and de-cap modules, four barcode scanners and two channel independent pipette heads, can transfer 192 clinical samples from screw cap or plain transfer tubes to 96-Well Microplates in 40 minutes. Barcode information can be automatically stored and transferred to ZLIMS system, providing information traceability.

3 Subpack into 96-well microplate

Two pipetting channels −freely configurable for volume range and use with disposable tips. Samples can be transferred into ANSI/SBS 96-well microplates rapidly, without manual pipetting errors. ANSI/SBS format sample supports a wide variety of automation laboratory equipment.

4 Close caps and recycle tubes automatically

Re-cap sample tubes and put to back to original location, after liquid transferring, to minimize sample exposure and prevent cross contamination. Provide HEPA-filtration and UV light to ensure a safer operation environment.

*Universal fit. Excellent fit on 5mL and 10mL tansport tube with screw cap.
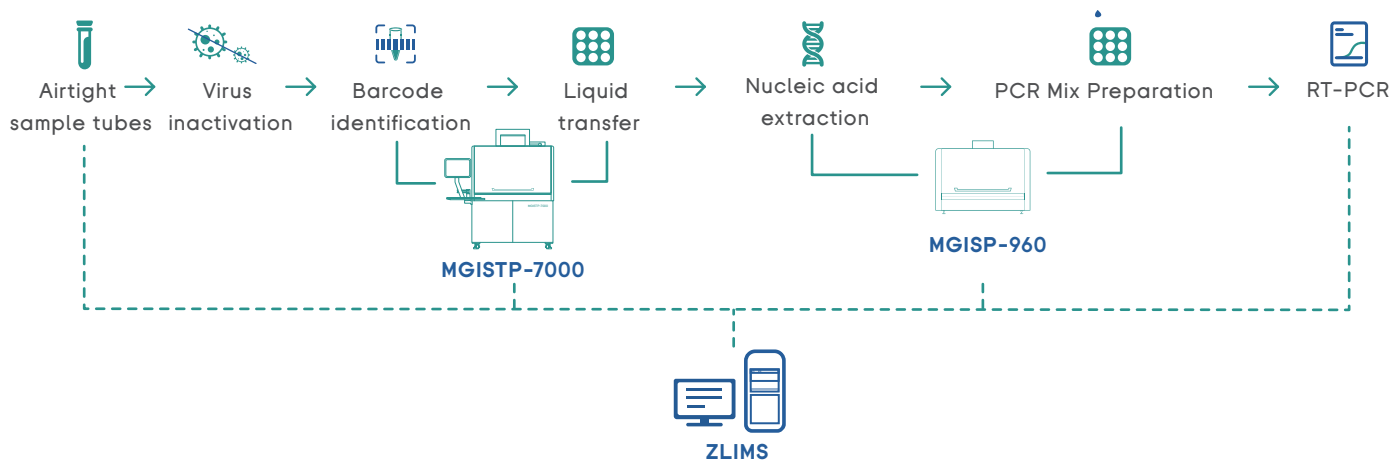
Unmatched safety

Supply/Exhaust air filter provides ISO5, 99.995% at 0.3um, creating a particle-free environment inside of MGISTP-7000, which is ideal for most microbiological applications. There is also a filter for potentially contaminated air, exhausting to the outside of the building and providing a safe working environment for Lab.

Powerful and User-friendly

An easy-to-use software platform, allows effortless set-up and quick operation. Just a single-click, it will finish the tedious sample pre-analytical steps for you.
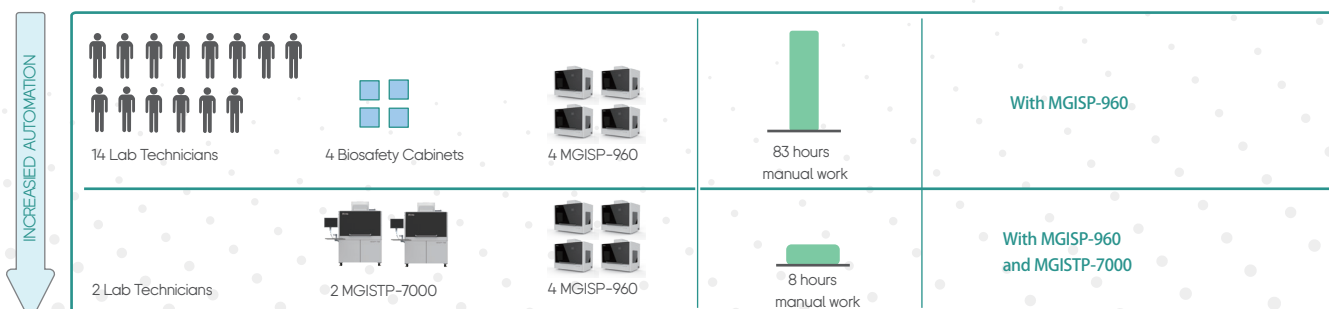
Flexible automation upgrade package - MGISTP-7000 can connect with ZLIMS system, which is a powerful laboratory management software, helping you integrate various third part instruments, such as RT-PCR system and nucleic acid extraction system.

Airtight sample tubes → Virus inactivation → Barcode identification → Liquid transfer → Nucleic acid extraction → PCR Mix Preparation → RT-PCR

MGISTP-7000

MGISP-960

ZLIMS

One-Stop Sample Preparation and High Productivity

MGISTP-7000 is designed for laboratories that require high productivity. You can transfer 192 clinical samples from screw cap transport tubes to 96-Well Microplates in 40 minutes. For very high throughput testing operations, you just need to add multiple downstream nucleic acid extraction systems. If you own a standard liquid transfer instrument, high-throughput MGISTP-7000 can maximize your PCR testing efficiency.

◼◼ 10,000 samples per day:

INCREASED AUTOMATION

14 Lab Technicians	4 Biosafety Cabinets	4 MGISP-960	83 hours manual work	With MGISP-960
2 Lab Technicians	2 MGISTP-7000	4 MGISP-960	8 hours manual work	With MGISP-960 and MGISTP-7000

MGISTP-7000

Sample Transfer Processing system

Single-Click to Operate, Fast and High Accuracy

Product specifications

Model	MGISTP-7000		Pipetting Method		Base on the principle of air displacement, Liquid level detection
Dimensions	1470mm(W)*960mm(D)*2100mm(H)		Volume Range		10 µL-1000 µL
Weight	550kg		Pipetting Precision		10 µL：<5% ; 100 µL：<2%
Electrical Requirements	Power	100 - 240 V		CV	1000 µL：<1%
	Hz	50/60 Hz			10 µL： <±10% ; 100 µL： <±5%
	Power Consumption	1000VA		Accuracy	1000 µL： <±2%
Operating Environment	Temperature	19 ℃ ~ 25 ℃		Robot Arm Accuracy	X-Y-Z：±0.1mm
	Relative Humidity	20% RH ~ 80% RH , Non-condensing		Barcode Scanner	Four Scanner sensors, Barcode types supported: 1D and 2D.
	Atmospheric Pressure	80 kPa ~ 106 kPa			UV Light	36W
Functions	Integrate multiple functions, including decapping, recapping, barcode identification, automated liquid transfer, HEPA-filtration and negative pressure protection.		Protection	Supply/Exhaust Air Filter	ISO5, HEPA 99.995% at 0.3µm, Negative Pressure System
Throughput	192 Samples/40 min		Tube Compatibility		Universal fit. Excellent fit on 5mL and 10mL Ttransport tube with screw cap.

Ordering Information

Cat. No.	Product name	Specification
900-000334-00	Sample Transfer Processing System, MGISTP-7000	EA, CE IVD
900-000334-00	Sample Transfer Processing System, MGISTP-7000RS	EA, CE RUO

Consumables

Cat. No.	Product name	Specification
1000023969	1000uL black conductive tips, sterile, filter	96/rack, 16 rack/case
1000023970*	1000uL transparent tips, sterile, filter	96/rack, 16 rack/Case
510-001236-00	MGISTP-7000 sample rack	EA
1000004644	1.3mL U-bottom deep-well plate	2 plates/bag

* Transparent tips can't support liquid level detection.

CONTACT US

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