MGI

40 min | **192** Samples

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

MGISTP-7000

Your High-throughput Automated
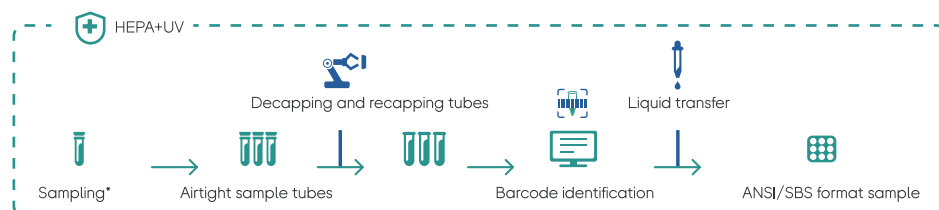Sample Transfer Processing system

CB CE NMPA

Leading Life Science Innovation
MGI Tech Co., Ltd.

MGISTP-7000

MGISTP-7000 a 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 2uL 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. arcode information can be automatically stored and transferred to ZLIMS system, providing information trace ability.

3   Subpack into microplate/tube

Two pipetting channels freely configurable for volume range and use with disposable tips. Samples can be transferred into ANSI/SBS 24/48/96-wells microplates rapidly, without manual pipetting errors. ANSI/SBS format sample supports a wide variety of automation laboratory equipment. Besides, MGISTP-7000 also supports transferring samples to the 1.5mL centrifuge tubes/2mL cryovials/5mL Roche tubes.

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 environ ment.

5   Customized transfer function

New Pbox system makes it possible to transfer different solution volume from different tubes to any deep-wells. At the same time, users can add customized tubes/plates to the system.

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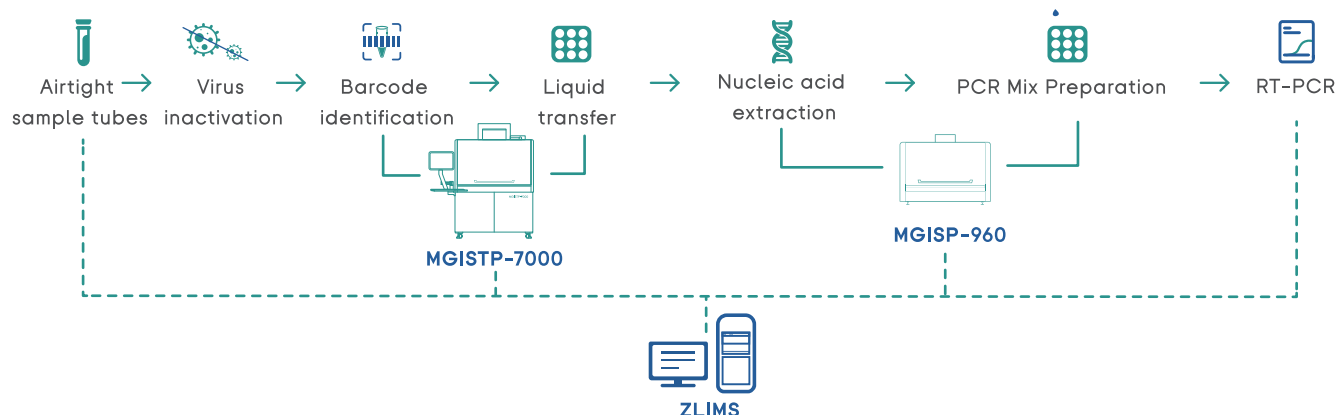
Unmatched safety

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-anaꝑlytical 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

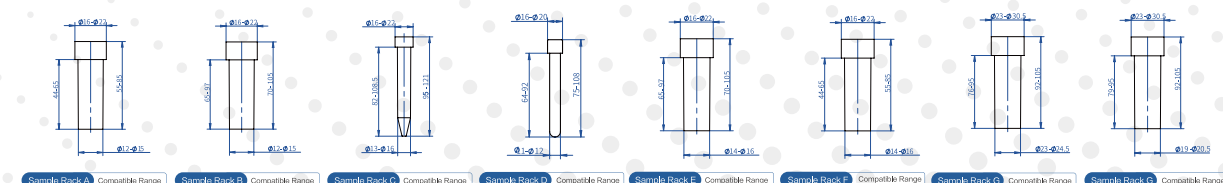## One-Stop Sample Preparation and High Productivity

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

Multiple Application Scenes

- Standard configuration: suitable for the 5mL-30mL screw-cap tubes.
- Upgrade accessories for blood tube: optional to open the blood tubes, it is compatible with the BD 4mL/6mL/10mL blood tubes.
- Upgrade accessories for cryopreservation tube: optional to open the 2mL cryopreservation tubes.
- Transfer from tube to tube: MGISTP-7000 also supports transferring samples from the original tubes to the 1.5mL centrifuge tubes/2mL cryovials/5mL Roche tubes. More customized tube adaptors are supported.

| Sample Rack A | Compatible Range | Sample Rack B | Compatible Range | Sample Rack C | Compatible Range | Sample Rack D | Compatible Range | Sample Rack E | Compatible Range | Sample Rack F | Compatible Range | Sample Rack G | Compatible Range | Sample Rack G | Compatible Range |

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		2 μL-1000 μL
Weight	about 500kg		Pipetting Precision	CV	10 μL：<5% ; 100 μL：<2%
Electrical Requirements	Power	100 - 240 V			1000 μL：<1%
	Hz	50/60 Hz		Accuracy	10 μL： <±10% ; 100 μL： <±5%
	Power Consumption	1000VA			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/10mL/15mL and 20mL/30mL transport tube with screw cap; Optional to open the blood collection tube/ cryopreservation tube/ feces tube.

Ordering Information

Equipments ▼

Cat. No.	Product name	Specification
900-000334-00	Sample Transfer Processing System, MGISTP-7000	EA, CE IVD
900-000336-00	Sample Transfer Processing System, MGISTP-7000RS	EA, CE RUO

Consumables ▼

Cat. No.	Product name	Specification
1000025011	1000μL black conductive tips, sterile, filtered(5-pack)	96*5/pack, 8 packs/case
1000023970	1000μL transparent tips, sterile, filtered	96/rack, 16 racks/case
091-000020-00	1000μL black conductive tips, sterile, filtered(wide-bore)	96/rack, 16 racks/case
091-000156-00	200μL Tips, Conductive, Filtered, Suspended	96/rack, 24 racks/case
091-000158-00	200μL Tips, Transparent, Filtered, Suspended	96/rack, 24 racks/case
091-000159-00	50μL Tips, Conductive, Filtered, Suspended	96/rack, 24 racks/case
091-000157-00	50μL TipsTr, ansparent, Filtered, Suspended	96/rack, 24 racks/case
1000004644	1.3mL 96 Well U-bottom deep-well plate	2 plates/bag

* Transparent tips cannot support liquid level detection.

Sample Racks ▼

Cat. No.	Product name	Specification
510-001234-00	MGISTP-7000 sample rack A	PCs
510-001236-00	MGISTP-7000 sample rack B	PCs
510-001235-00	MGISTP-7000 sample rack C	PCs
510-001347-00	MGISTP-7000 sample rack D	PCs
510-001453-00	MGISTP-7000 sample rack E	PCs
510-001452-00	MGISTP-7000 sample rack F	PCs
510-002010-00	MGISTP-7000 sample rack G	PCs
510-004125-00	MGISTP-7000 sample rack H	PCs
510-004126-00	MGISTP-7000 sample rack I	PCs

MGI Tech Co., Ltd.

Building 11, Beishan Industrial Zone, Yantian District, Shenzhen

✉ MGI-service@mgi-tech.com   🌐 en.mgi-tech.com   📞 +86 4000-688-114