

MGISP-Smart 8

Your Independent 8-channel Pipetting Robot



Flexible pipetting, Easy-to-use.
Give you the application freedom!

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Unlock flexibility and possibilities

Why Choose

MGISP-Smart 8

Automated sample preparation system



MGISP-Smart 8

Flexible Pipetting Robot For Lab Automation



- **Flexible pipetting**

MGISP-Smart 8 is a professional automated pipetting robot, equipped with an **independent 8 pipetting channel**. The **pipetting volume range** is from **1 μ L to 1000 μ L**, its pipetting distance, volume and height are independently adjustable, which allow various flexible pipetting routines, greatly improving automated sample transfer, plate setup, and assay processes.

- **Easy-to-use**

MGISP-Smart 8's software has a graphical deck editor, which contains **9 functional commands** and **35 modular commands**. The GUI allows the user to interface with instrument script by a series of drag and drop functions to assemble and edit a protocol. It also allows the user to copy and edit a pre-existing method for more flexible operation.

- **Multi-configurations to choose**

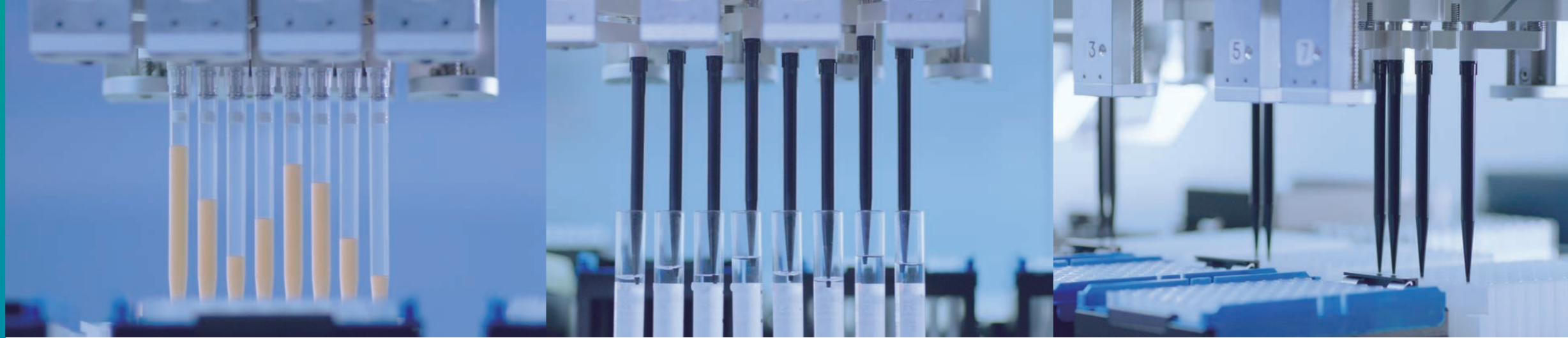
MGISP-Smart 8 has **4 standard configurations**, with **9 functional modules**, suitable for various of samples, reagents and consumables while providing the user the ability to customize the instrument for different applications.

Flexible Pipetting

Independent 8-channel pipetting

High pipetting precision

Give you the pipetting freedom



- MGISP-Smart 8 has eight independent pipetting channels. It's pipetting based on air displacement rather than system fluid, which ensures stability, accuracy and avoids cross-contamination.

- The dynamic pipetting range of MGISP-Smart 8 is 1-1000µL that enables flexible pipetting. The channels also features dual liquid level detection with user controlled Z-axis speed for high-precision, high-accuracy random access pipetting.

Dual Liquid Level Detection

- **Capacitive Liquid Level Detection:** Conductive liquid level can be detected quickly, with conductive tips, based on the instant capacitance change.
- **Pneumatic Clot Detection:** Intelligent identification of any blockage in tip based on internal air pressure monitoring.

Triple Flexible Pipetting

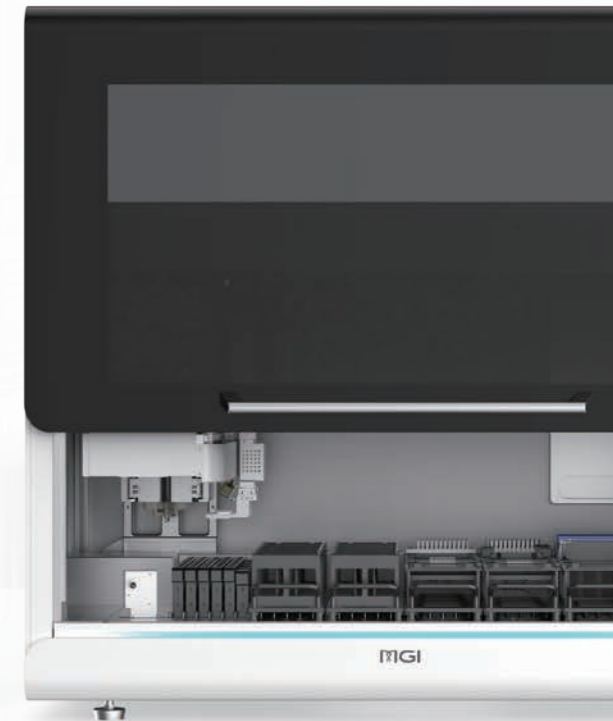
- **Unequal Volume Pipetting:** Each channel pipette allows for unequal volume pipetting from 1-1000µL volume.
- **Unequal Height Pipetting:** The liquid height of each channel can be adjusted intelligently.
- **Unequal Distance Pipetting:** Unequal independent spreading channels from 9mm-480mm allows for cross-tube and cross-plate pipetting with reduced movement and increased speed.

Performance Parameter

Pipetting Range	Pipetting Volume	Pipetting CV	Pipetting Accuracy
1 µL-1000 µL	1 µL	<8%	<±10%
	200 µL	<1%	<±2%
	1000µL	<1%	<±1%

Plus+: Advanced Pipetting Freedom

- **Segmented Independent Channel Z-axis Drive System (motion, detection, aspiration)**
The Z-axis adopts segmented speed control, which ensures more stable liquid level detection and more efficient aspiration.
- **Intelligent Liquid Level Tracking**
The tip depth under the liquid surface can be adjusted intelligently, which will avoid the tip hanging fluid.



Easy-to-use

Design your deck as needed

Draggable modular commands

Give you the application freedom

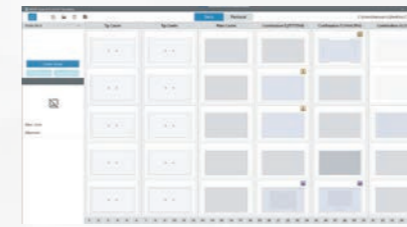
Flexible and Graphic Deck Design

▶ Triple table design concept, freely customize your deck top

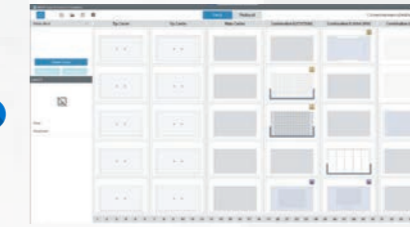
- MGISP-Smart 8's deck top contains 36 independent deck tracks, with 30 SBS plate positions, supporting push-in carriers with active position sensing function
- MGISP-Smart 8's software has a graphical editor, users can flexibly design their own decks top based on experimental needs in three simple steps.

▶ Intelligent guidance for fast and efficient layout of your deck top

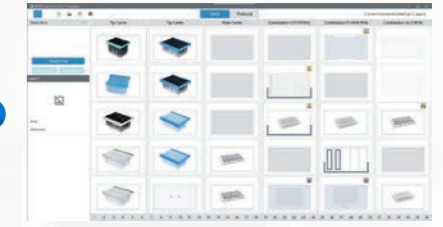
- MGISP-Smart 8 is compatible with 7 types of consumables carriers and suitable for various consumables such as SBS microplates, sample and reagent tubes, reservoirs, etc. MGISP-Smart 8's software can intelligently match the suitable adapters and consumables according to the selected carriers, helping you to arrange the deck accurately and efficiently.



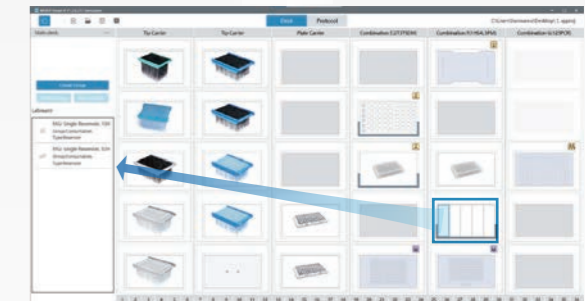
Step 1: Select Carriers



Step 2: Choose Adapters



Step 3: Select Consumables



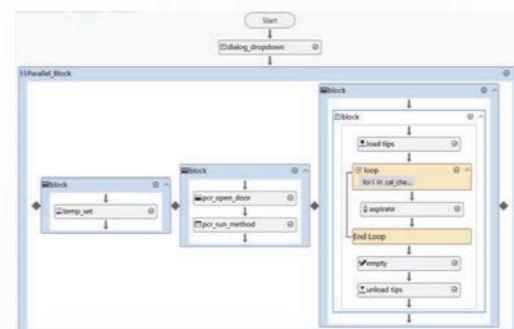
Easy and Efficient Process Editing

▶ Abundant function commands

- MGISP-Smart 8's operating software not only provides established process scripts, but is also equipped with a graphical process editor. It contains 9 major functional commands and 35 modular commands.
- Users can not only choose a defined standardized process, but also have the freedom to design the experimental process by flexibly combining instructions according to their needs.

▶ Drag-and-drop process editing

- According to experiment requirement, users can drag the desired commands to the workflow design area, to design the complete workflow. The experimental process is realized by connecting conventional instructions in series with module instructions and interactive instructions.
- Moreover, MGISP-Smart 8 process editing allows multi-processes to run parallelly, greatly improving the efficiency of experiments.



How to Choose

MGISP-Smart 8

Config.1 Cherry Picking Workstation

Config.2 Sample Dispensing & Reaction Preparation Workstation

Config.3 Nucleic Acid Extraction Workstation

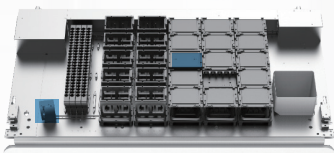
Config.4 Library Preparation Workstation





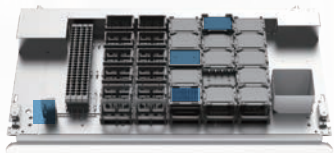
▷ **Config.1 Cherry Picking Workstation**

- It is suitable for various consumables, realizing flexible pipetting.



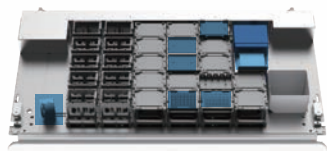
▷ **Config.2 Sample Dispensing & Reaction Preparation Workstation**

- It realizes sample and reagent dispensing and reaction preparing, etc., with the Temp. Control Module.



▷ **Config.3 Nucleic Acid Extraction Workstation**

- It provides full automation from sample dispensing - nucleic acid extraction - reaction configuration/normalization by equipped with Temperature Control Module A & Thermal Oscillation Module A & Deep Well Plate Magnetic A.
- It reduces aerosol contamination with dual HEPA system.



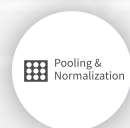
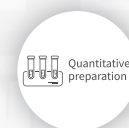
▷ **Config.4 Library Preparation Workstation**

- It contains library preparation-related function modules to do multiple library preparation experiments.
- It enables high-automatic library preparation processes such as extraction, normalization, library preparation, make DNB, pooling, etc.

MGISP-Smart 8RS Config.1

900-000495-00

Cherry Picking Workstation

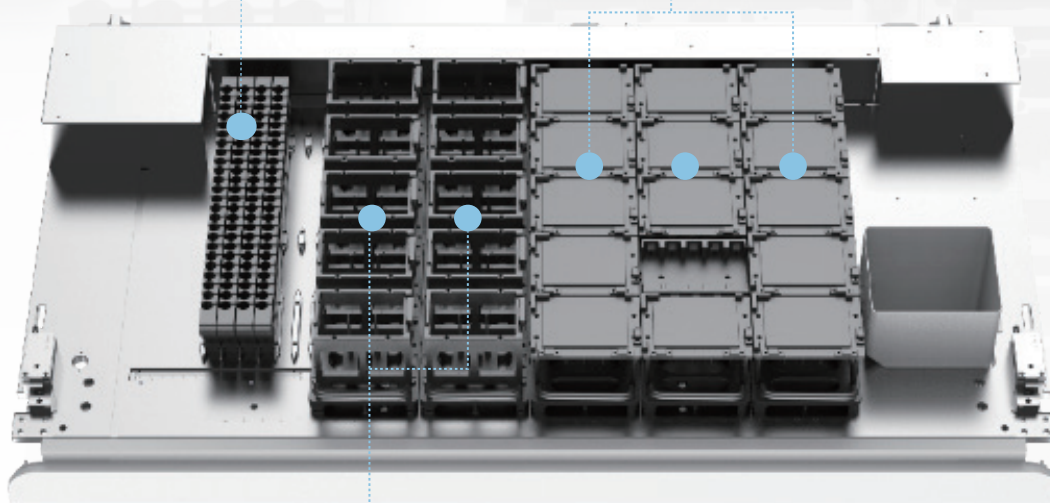


Tube carrier A*4

- Suitable for 0.6mL, 0.5mL, 1.5mL, 2mL tubes (adapter required) and 6mL, 10mL blood collection tubes

Plate Carrier A*2+Combi. Carrier A*1






- Suitable for 50mL and 100mL Single Well Reservoir and 96 Well SBS Microplates



Suspended Tip Carrier A*2

- Suitable for 1000µL, 200µL and 50µL automated tips

The following adapters require extra purchase (not in config.1)

Picture	Name	Description	Item No.	Picture	Name	Description	Item No.
	Tube Adapter A	Applied to Tube Carrier A, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes.	012-000802-00		PCR Plate Adapter A	Applied to SBS Plate, it is suitable for 0.2 mL 96 Well Half-skirt PCR Plate.	010-002780-00
	Tube Adapter B	Applied to Tube Carrier A, it is suitable for 0.6mL Centrifuge Tubes.	012-000801-00		Multi-segment Adapter B	Applied to SBS Plate, it is suitable 0.6mL Centrifuge Tubes.	010-004559-00
					Multi-segment Adapter C	Applied to SBS Plate, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes and Break-away PCR Plate.	010-004055-00

MGISP-Smart 8RS Config.2

900-000500-00

Sample Dispensing & Reaction Preparation Workstation



Samples &
Reagents
Dispensing

Reaction
Preparation

Pooling &
Normalization

Support tubes on machine;
Flexible random sampling ;
Suitable for various consumables.

Tube Carrier A*4

- Suitable for 0.6mL, 0.5mL, 1.5mL, 2mL tubes (adapter required) and 6mL, 10mL Blood Collection Tubes

Plate Carrier A*1+Combi. Carrier A*1

- Suitable for 50mL and 100mL Single Well Reservoir and 96 Well SBS Microplates

Deck Scanner A*1

- For scanning of the 1D code tubes



Combi. Carrier B*1








- Temp. Control Module A*1
- Multi-segment Adapter A*1

Suspended Tip Carrier A*2

- Suitable for 1000µL, 200µL and 50µL Automated Tips

For low-temperature storing and
high-temperature heating of samples
or reagents.

The following adapters require extra purchase (not in config.2)

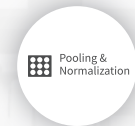
Picture	Name	Description	Item No.	Picture	Name	Description	Item No.
	Tube Adapter A	Applied to Tube Carrier A, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes.	012-000802-00		PCR Plate Adapter A	Applied to SBS Plate, it is suitable for 0.2 mL 96 Well Half-skirt PCR Plate	010-002780-00
	Tube Adapter B	Applied to Tube Carrier A, it is suitable for 0.6mL Centrifuge Tubes.	012-000801-00		PCR Plate Adapter B	Applied to Temp.Control Module, it is suitable for 0.2 mL 96 Well PCR Plates.	010-001217-00
	Multi-segment Adapter B	Applied to SBS Plate, it is suitable 0.6mL Centrifuge Tubes.	010-004559-00		Deepwell Plate Adapter A	Applied to Temp.Control Module & Heater Shaker Module, it is suitable for 1.3ml 96 Well U-bottom Deepwell Plate.	010-001216-00
	Multi-segment Adapter C	Applied to SBS Plate, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes and Break-away PCR Plate.	010-004055-00				

MGISP-Smart 8RS Config.3

Nucleic Acid Extraction Workstation



900-000498-00



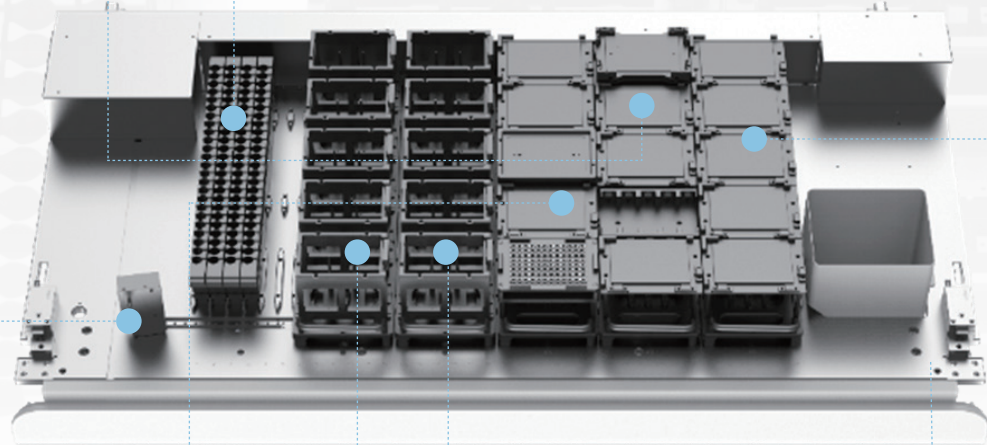
For shaking & heating function.

- Combi. Carrier**
- Heater Shaker Module*1
 - Deepwell Plate Adapter A*1
 - Single Well Reservoir Adapter A*1

- Tube Carrier A*4**
- Suitable for 0.6mL, 0.5mL, 1.5mL, 2mL Tubes (adapter required) and 6mL, 10mL Blood Collection Tubes

- Plate Carrier A*1**
- Suitable for 96 Well SBS Microplates

- Deck Scanner A*1**
- For scanning of the 1D code tubes



For low-temperature storing and high-temperature heating of samples or reagents;
Supporting magnetic beads adsorption in Deepwell Plate to automate nucleic acid extraction or purification of samples.

- Combi. Carrier**
- Temp. Control Module*2
 - Magnetic Module A*1
 - Multi-segment Adapter A*1

- Suspended Tip Carrier A*2**
- Suitable for 1000µL, 200µL and 50µL Automated Tips

- HEPA Module A*1**
- Air purification rate of 99.995%@0.3µm.

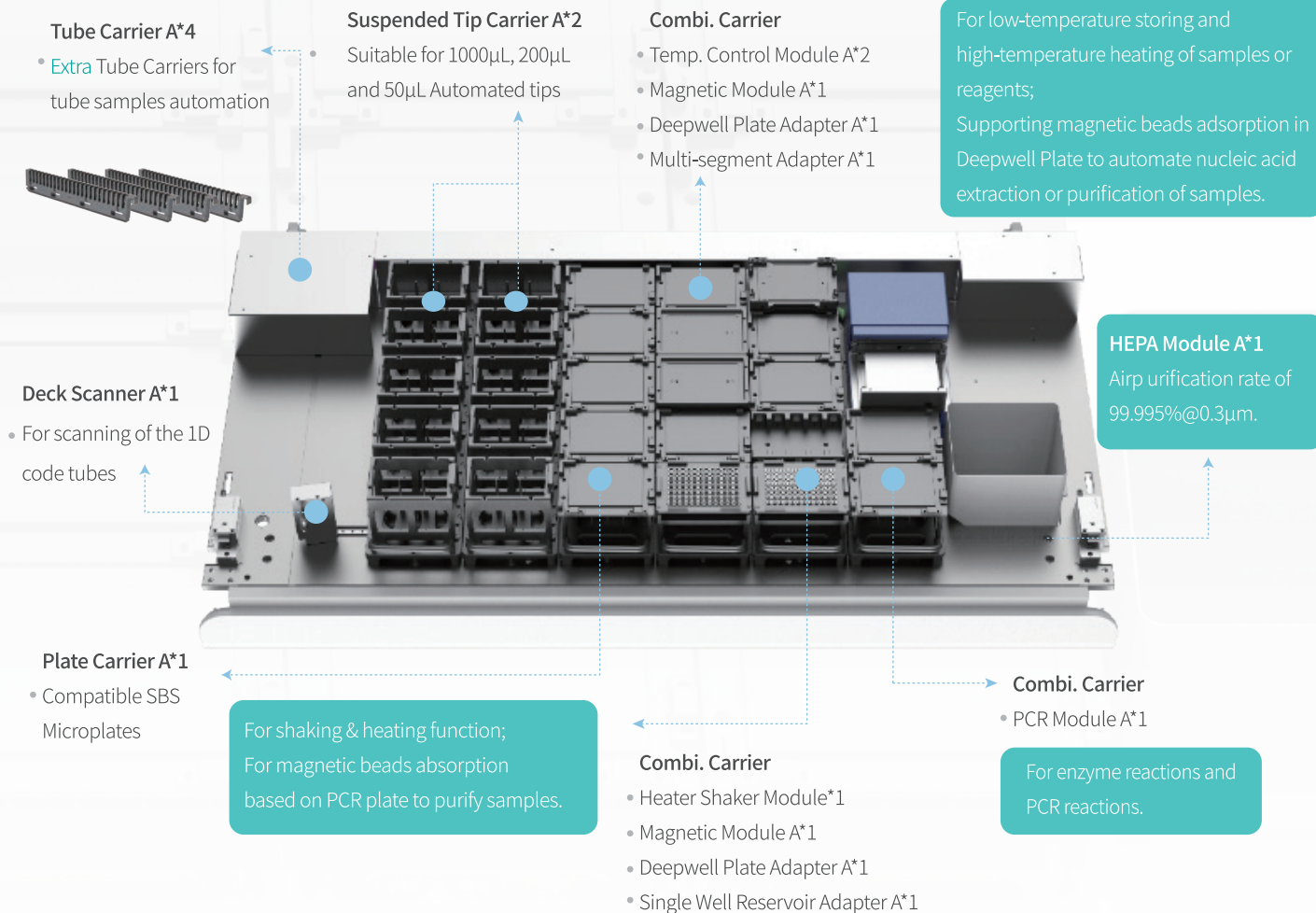
The following adapters require extra purchase (not in config.3)

Picture	Name	Description	Item No.	Picture	Name	Description	Item No.
	Tube Adapter A	Applied to Tube Carrier A, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes.	012-000802-00		Multi-segment Adapter C	Applied to SBS Plate, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes and Break-away PCR Plate.	010-004055-00
	Tube Adapter B	Applied to Tube Carrier A, it is suitable for 0.6mL Centrifuge Tubes.	012-000801-00		PCR Plate Adapter A	Applied to SBS Plate, it is suitable for 0.2 mL 96 Well Half-skirt PCR Plate.	010-002780-00
	Multi-segment Adapter B	Applied to SBS Plate, it is suitable 0.6mL Centrifuge Tubes.	010-004559-00		PCR Plate Adapter B	Applied to Temp.Control Module, it is suitable for 0.2mL 96 Well Skirted PCR Plates.	010-001217-00

MGISP-Smart 8RS Config.4

900-000503-00

Library Preparation Workstation



The following adapters require extra purchase (not in config.4)

Picture	Name	Description	Item No.	Picture	Name	Description	Item No.
	Tube Adapter A	Applied to Tube Carrier A, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes.	012-000802-00		Multi-segment Adapter C	Applied to SBS Plate, it is suitable for 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes and Break-away PCR Plate.	010-004055-00
	Tube Adapter B	Applied to Tube Carrier A, it is suitable for 0.6mL Centrifuge Tubes.	012-000801-00		PCR Plate Adapter A	Applied to SBS Plate, it is suitable for 0.2 mL 96 Well Half-skirt PCR Plate.	010-002780-00
	Multi-segment Adapter B	Applied to SBS Plate, it is suitable 0.6mL Centrifuge Tubes.	010-004559-00		PCR Plate Adapter B	Applied to Temp.Control Module, it is suitable for 0.2mL 96 Well Skirted PCR Plates.	010-001217-00



Purchasing Guide

More about MGISP-Smart 8

Unlock flexibility and possibilities



Hosts

Image	Name	Description	Item NO.
	MGISP-Smart 8 Automated Sample Preparation System	Without HAPE.	900-000592-00
	MGISP-Smart 8 Automated Sample Preparation System	With HAPE, maintain negative pressure inside the machine.	900-000589-00




Function Modules (Optional)

Image	Name	Description	Item NO.
	Robot Scanner A	Able to move with pipette arm, used for scanning barcodes of microplates.	510-001991-00
	Deck Scanner A	Fix on the left side of the table, used for scanning barcodes of tubes.	510-002091-00
	Magnetic Module A	For magnetic beads absorption based on Deepwell Plates.	510-002090-00
	Magnetic Module B	For magnetic beads absorption based on 0.2mL 96 Well Skirted PCR Plates.	510-002095-00
	Shaker Module A	For mixing during experiments on Deepwell Plates.	510-002089-00


Function Carriers

Image	Name	Description	Item NO.
	Combi. Carrier B	The third position is a Temp.Control Module A for low-temperature storing and high-temperature heating of samples or reagents.	510-001996-00
	Combi. Carrier G	Includes PCR Module A for enzyme reaction and PCR reaction.	510-002000-00
	Combi. Carrier H	The first position is the Heater & Shaker Module A, providing both shaking and heating functions.	510-001997-00
	Combi. Carrier I	Two Temp.Control Modules A for low-temperature storing and high-temperature heating of samples or reagents.	510-001994-00
	Combi. Carrier J	Two Heater & Shaker Module A provide shaking & heating functions.	510-002003-00

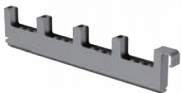
■ Tube Carriers

Image	Name	Description	Item NO.
	Tube Carrier A	It can be placed 24 tubes, compatible with 0.5mL, 0.6mL, 1.5mL, 2mL Centrifugal Tubes (adaptors required) or 6mL, 10mL Blood Collection Tubes.	510-002097-00
	Tube Carrier B	It can be placed 20 tubes, compatible with 5mL Centrifugal Tubes.	510-002093-00
	Tube Carrier C	It can be placed 12 tubes, compatible with 50mL Centrifugal Tubes.	510-002092-00



■ Tip Carriers

Image	Name	Description	Item NO.
	Suspended Tip Carrier A	It can be placed 5 boxes of tips, compatible with 50µL, 200µL, 1000µL Tips.	510-002094-00





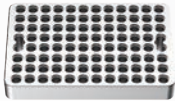
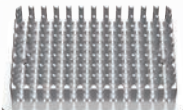



■ Reservoir Carriers

Image	Name	Description	Item NO.
	Single Well Reservoir Carrier A	It can be placed 4 Single Well Reservoirs, compatible with 50mL and 100mL Reservoirs.	510-001992-00


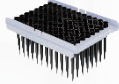
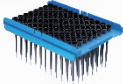

■ Plate Carriers

Image	Name	Description	Item NO.
	Plate Carrier A	It can be placed 5 microplates.	510-002001-00
	Combi. Carrier A	The fourth plate is Plate Carrier Rack B, with Single Well Reservoirs Adapter A, which can hold 4 SBS Microplates and 5 Single Well Reservoirs of 50mL and 100mL.	510-001998-00

Adapters

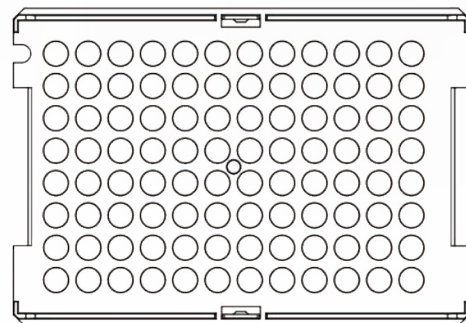
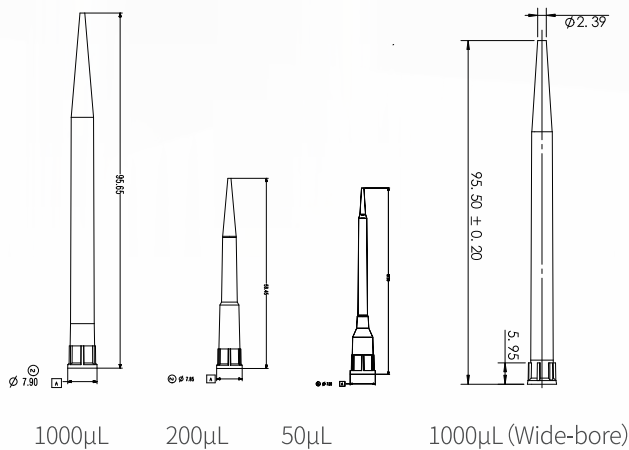
Image	Name	Description	Item NO.
	Tube Adapter A	Applied to Tube Carrier A, compatible with 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes.	012-000802-00
	Tube Adapter B	Applied to Tube Carrier A, compatible with 0.6mL Centrifuge Tubes.	012-000801-00
	Single Well Reservoir Adapter A	Applied to Plate Carrier Rack B, compatible with 5 Single Well Reservoirs of 50mL or 100mL.	010-002833-00
	PCR Plate Adapter A	Applied to SBS Plate, compatible with 0.2 mL 96 Well Half-skirt PCR Plate.	010-002780-00
	PCR Plate Adapter B	Applied to Temp.Control Module A, compatible with 96 Well PCR Plates.	010-001217-00
	Deepwell Plate Adapter A	Applied to Temp.Control Module A and Heater Shaker Module A, compatible with 1.3ml 96 Well U-bottom Deepwell Plate.	010-001216-00
	Multi-segment Adapter A	Applied to Temp.Control Module A, compatible with 0.5mL, 2mL centrifuge Tubes and Break-away PCR Plate.	010-002817-00
	Multi-segment Adapter B	Applied to SBS Plate, compatible with 0.6mL Centrifuge Tubes.	010-004559-00
	Multi-segment Adapter AC	Applied to SBS Plate, compatible with 0.5mL, 2mL Cryo Tubes and 1.5mL, 2mL Centrifuge Tubes and Break-away PCR Plate.	010-004055-00

Automated Conductive Tips

Image	Name	Specification	Unit	Sterility	Item NO.
	1000µL Tips, Conductive, Filtered, Suspended	96 tips/rack, 40 racks/case	Case	Sterile	091-000223-00
	200µL Tips, Conductive, Filtered, Suspended	96 tips/rack, 24 racks/case	Case	Sterile	091-000156-00
	50µL Tips, Conductive, Filtered, Suspended	96 tips/rack, 24 racks/case	Case	Sterile	091-000159-00
	1000µL Black Conductive Tips, Sterile, Filtered (Wide-Bore)	96 tips/rack, 16 racks/case	Case	Sterile	091-000020-00

Tips Size

Tip Rack Size



• Material

- ✓ Conductive polypropylene


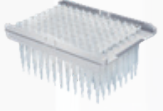
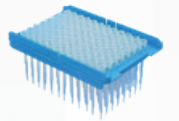
• Purity standard

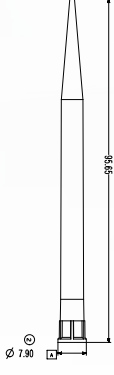
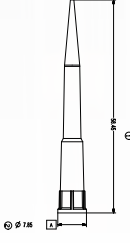
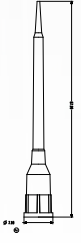
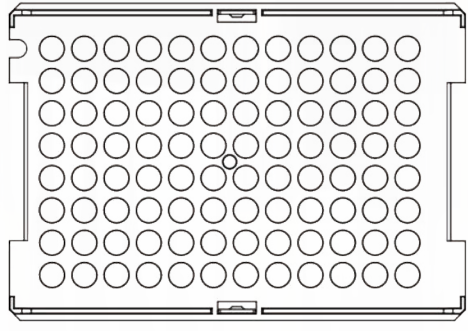
- ✓ Human DNA free
- ✓ PCR inhibitors free
- ✓ Dnase/RNase free, Sterile

• Features



- ✓ High-quality conductive polypropylene enables reliable liquid-level detection
- ✓ Sterile filter elements prevent aerosol pollution
- ✓ Wide-bore tips can be used to pipette the viscous solution

Automated Transparent Tips

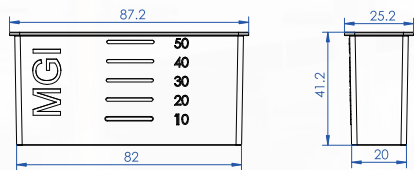
Image	Name	Specification	Unit	Sterility	Item NO.
	1000µL Tips, Transparent , Filtered, Suspended	96 tips/rack, 16 racks/case	Case	Sterile	1000023970
	200µL Tips, Transparent , Filtered, Suspended	96 tips/rack, 24 racks/case	Case	Sterile	091-000158-00
	50µL Tips, Transparent , Filtered, Suspended	96 tips/rack, 24 racks/case	Case	Sterile	091-000157-00

Tips Size			Tip Rack Size
			
1000µL	200µL	50µL	
<ul style="list-style-type: none"> Material <ul style="list-style-type: none"> ✓ Polypropylene 	<ul style="list-style-type: none"> Purity standard <ul style="list-style-type: none"> ✓ Human DNA free ✓ PCR inhibitors free ✓ Dnase/RNase free, Sterile 	<ul style="list-style-type: none"> Features <ul style="list-style-type: none"> ✓ High-quality polypropylene, resistant to various chemical reagents ✓ Sterile filter elements prevent aerosol pollution ✓ Different tip specifications ensure accurate sample transfer 	

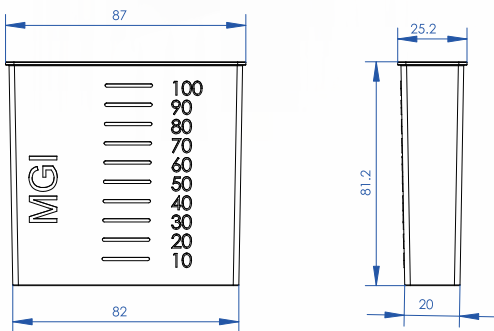
Single Well Reservoirs

Image	Name	Specification	Unit	Volume	Sterility	Item NO.
	50mL Single Well Reservoir	50 pieces/box	Box	2-50mL	Sterile	012-000780-00
	100mL Single Well Reservoir	50 pieces/box	Box	2-100mL	Sterile	012-000779-00

Single Well Reservoir Size



50mL Single Well Reservoir

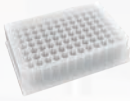





100mL Single Well Reservoir

Consumables Description

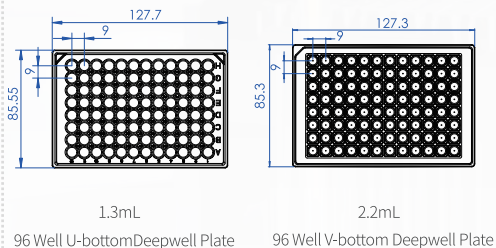
- **Material**
 - ✓ Polypropylene
- **Purity standard**
 - ✓ Human DNA free
 - ✓ PCR inhibitors free
 - ✓ DNase, RNase free, Sterile
- **Features**
 - ✓ Resistant to various chemical reagents
 - ✓ Accurate measuring range, flexible working volume, efficient dispensing of reagents

96 Well Plates

Image	Name	Specification	Unit	Volume	Sterility	Item NO.
	1.3ml 96 Well U-bottom Deepwell Plate	2 plates/bag	Bag	≤1.3mL	Sterile	1000004644
	2.2 mL 96 Well V-bottom Deepwell Plate	60 plates/case	Case	≤2.2mL	Sterile	1000008088
	Hard-shell Thin-wall 96 Well Skirted PCR Plates, White Shell/Clear Well	10 plates/bag	Bag	≤200 μL	Sterile	091-000165-00
	0.2 mL 96 Well Half-skirt PCR Plate	10 plates/box, 20 boxes/case	Case	≤200 μL	Sterile	1000000671

96 Well Plate Size

Consumables Description



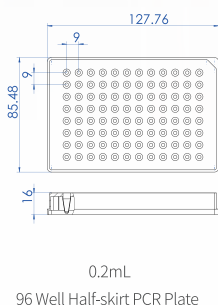
- **Material:** USP Class VI and FDA approved medical grade polypropylene material

• Purity standard

- ✓ Human DNA free
- ✓ PCR inhibitors free
- ✓ DNase, RNase free, Sterile

• Features

- ✓ High-quality heat-resistant and corrosion-resistant polypropylene material
- ✓ Letter-number coordinate design, easy to locate well
- ✓ High flatness and good consistency of external dimension, and conducive to the grab of automatic instrument mechanical arm

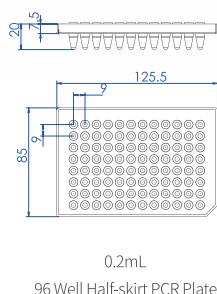


• Purity standard

- ✓ Sterile, pyrogen free
- ✓ Endotoxin, DNA free
- ✓ DNase, RNase free
- ✓ Inhibitors free

• Features

- ✓ High-quality heat-resistant and corrosion-resistant polypropylene material
- ✓ Ultra-thin tube wall provides fast and uniform heat conduction effect
- ✓ Letter-number coordinate design, easy to locate well
- ✓ Convex edge design of the tube guarantees the sealing and pollution-free



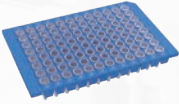
• Purity standard

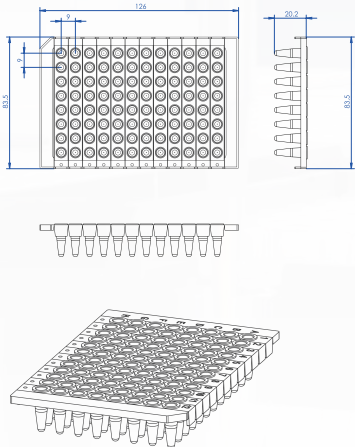
- ✓ Sterile, pyrogen free
- ✓ Endotoxin, DNA free
- ✓ DNase, RNase free
- ✓ Inhibitors free

• Features

- ✓ High-quality heat-resistant and corrosion-resistant polypropylene material
- ✓ Ultra-thin tube wall provides fast and uniform heat conduction effect
- ✓ Convex edge design of the tube guarantees the sealing and pollution-free

Break-away PCR Plate

Image	Name	Specification	Unit	Volume	Sterility	Item NO.
	Break-away PCR Plate and Cover, 96 Well	10 plates/box(Tube) 120 strips/box (Cap)	Box	≤200 μL	Sterile	100-000016-00

Break-away PCR Plate Size	Consumables Description
	<ul style="list-style-type: none"> • Material <ul style="list-style-type: none"> ✓ Tube Wells: polypropylene ✓ Tube Frame: Polycarbonate ✓ Cap: Polypropylene • Purity standard <ul style="list-style-type: none"> ✓ Sterile, pyrogen free ✓ Endotoxin, DNA free ✓ DNase, RNase free ✓ Inhibitors free • Features <ul style="list-style-type: none"> ✓ Standard 96-well design, can be broken vertically into single eight-tubes ✓ Matching caps can effectively prevent sample volatilization ✓ Dual-material design, the rugged plate is more suitable for heat sealing film. It can be used in combined with Strips of 8 Caps.

Consumables List

Automated Conductive Tips

Name	Specification	Unit	Item NO.
1000µL Tips, Conductive , Filtered, Suspended	96 tips/rack, 40 racks/case	Case	091-000223-00
200µL Tips, Conductive , Filtered, Suspended	96 tips/rack, 24 racks/case	Case	091-000156-00
50µL Tips, Conductive , Filtered, Suspended	96 tips/rack, 24 racks/case	Case	091-000159-00
1000µL Black Conductive Tips, Sterile, Filtered (Wide-Bore)	96 tips/rack, 16 racks/case	Case	091-000020-00

Automated Transparent Tips

Name	Specification	Unit	Item NO.
1000µL Tips, Transparent , Filtered, Suspended	96 tips/rack, 16 racks/case	Case	1000023970
200µL Tips, Transparent , Filtered, Suspended	96 tips/rack, 24 racks/case	Case	091-000158-00
50µL Tips, Transparent , Filtered, Suspended	96 tips/rack, 24 racks/case	Case	091-000157-00

Single Well Reservoirs

Name	Specification	Unit	Item NO.
50mL Single Well Reservoir	50 pieces/box	Box	012-000780-00
100mL Single Well Reservoir	50 pieces/box	Box	012-000779-00

96 Well Plates

Name	Specification	Unit	Item NO.
1.3mL 96 Well U-bottom Deepwell Plate	2 plates/bag	Bag	1000004644
2.2 mL 96 Well V-bottom Deepwell Plate	60 plates/bag	Case	1000008088
Hard-shell Thin-wall 96 Well Skirted PCR Plates, White Shell/Clear Well	10 plates/bag	Bag	1000012059
0.2 mL 96 Well Half-skirt PCR Plate	10 plates/box, 20 boxes/case	Case	1000000671

Break-away PCR Plate

Name	Specification	Unit	Item NO.
Break-away PCR Plate and Cover, 96 Well	10 plates/box (Tube)	Box	100-000016-00
	120 strips/box (Cap)		

MGISP Series

Multi-faceted to meet your laboratory's individual needs



MGISP-100

Throughput ▶ 8 or 16 Samples/Run*

Deck capacity ▶ 6 SBS positions

- Fixed 8-channel pipette
- Compact countertop, standardized model for library preparation
- Suitable for small and medium-sized laboratory

NEW



MGISP-Smart 8

Throughput ▶ 1-48 Samples/Run*

Deck capacity ▶ 30 SBS positions

- Independent 8-channel pipette
- Rail-type countertops, customizable for different applications
- Fit for flexible throughput laboratory



MGISP-960

Throughput ▶ 96 Samples/Run*

Deck capacity ▶ 24 SBS positions

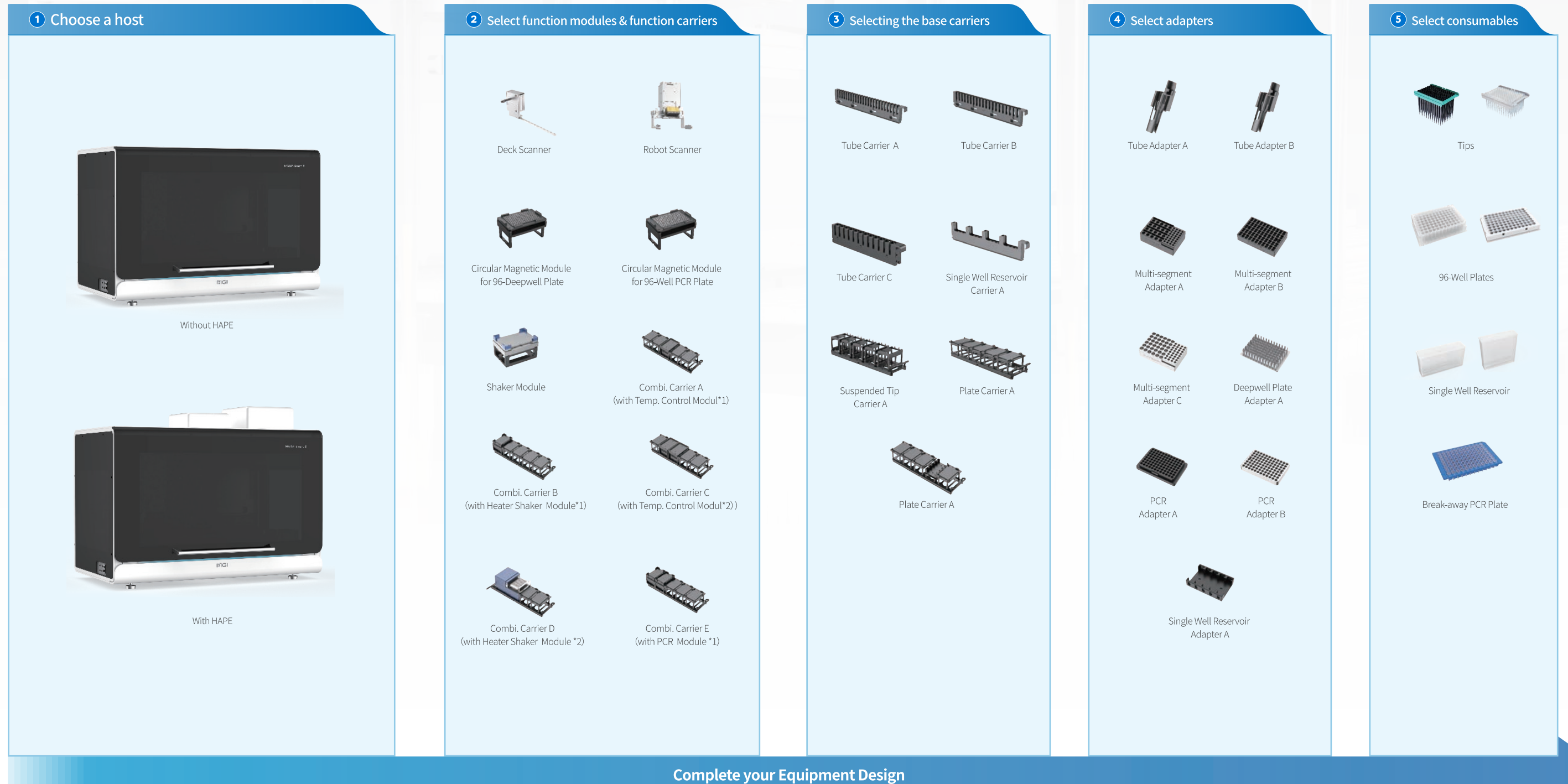
- Fixed 96-channel pipette
- Compact countertop, integrate multiple function modules
- Suitable for high throughput laboratory

*The numbers were calculated based on the throughputs of library preparation.

Purchasing Guide

Customize your MGISP-Smart 8

- Users have flexibility to choose modules & carriers & adapters according to their applications.
- Only in 5 simple steps, users can customize their own MGISP-Smart 8.



*Please confirm the application, kit and throughput before starting to customize your own MGISP-Smart 8.

MGI Global Presence

Technical Support Available Globally

The MGI technical support team has a complete global coverage, including technical service centers in major international regions and multiple locations to maximize customer satisfaction.



Multiple local technical support centers around the world provide timely and effective technical support and training.



Spare part centers in Shenzhen, Wuhan, Qingdao, Tianjin, Hong Kong (China), Brisbane (Australia), Singapore, and Riga (Latvia) to ensure sufficient supply of parts for machine maintenance.



Online technical support accessible worldwide, with a fully functioning call center (Toll-Free Hotline 4000-688-114) (9:00AM-12:00PM, 13:00PM-18:00PM, Beijing time (GMT+8), workday). Multi-language online training courses coming soon.

Comprehensive Instrument Service and Warranty Plans Globally



Warehouses in Shenzhen, Wuhan, Qingdao, Tianjin, Hong Kong, Taipei, Singapore (Asia-Pacific), Brisbane (Australia Oceania), Riga (Latvia, Europe), and San Jose (the USA, Americas) are established to ensure sufficient supply of maintenance parts for major regions.



Free installation and system verification services (inclusive of necessary reagents and consumables) to quickly turn your investment into production.



MGI is responsible for any manufacturing defects or faults on the system within the warranty. Warranty covers labor parts and travel charges.



One free instrument preventive maintenance is provided with warranty, along with a variety of available extended warranty support plans.

About MGI Tech Co., Ltd

MGI Tech Co., Ltd. (referred to as MGI) is committed to building core tools and technology to lead life science through intelligent innovation. MGI focuses on R&D, production and sales of DNA sequencing instruments, reagents, and related products to support life science research, agriculture, precision medicine and healthcare. MGI is a leading producer of clinical high-throughput gene sequencers, and its multi-omics platforms include genetic sequencing, mass spectrometry, medical imaging, and laboratory automation. Founded in 2016, MGI has more than 1800 employees, nearly half of whom are R&D personnel. MGI operates in more than 80 countries and regions and has established multiple research and production bases around the world. Providing real-time, comprehensive, life-long solutions, its vision is to enable effective and affordable healthcare packages for all.



Performance Parameters

Pipette	Pipetting range	1 µL–1000 µL
	Pipetting CV	1 µL : CV<8%
		200 µL : CV<1%
		1000µL : CV<1%
	Pipetting accuracy	1 µL : accuracy<±10%
		200 µL : accuracy<±2%
1000µL : accuracy<±1%		
Robotic arm	Positioning accuracy: ±0.1 mm	

Hardware Parameters

UV disinfection system	The dose of irradiation is higher 100 000µW.s/cm ²	
Size	W: 1410mm, H:799mm, D:970mm (without HEPA module)	
Net weight	Approximately 220 kg (485 lb, without carries)	
Power requirements	Voltage	200–240V, 50/60Hz
	Rated power consumption	1500VA (not including modules on operation deck and optional modules)
Working environment	Ambient temperature	15°C–35°C
	Relative humidity	20%RH–80%RH, No condensation
	Air pressure range	80–106 kPa

For Research Use Only.

MGI Tech Co.,Ltd

Building 11, Beishan Industrial Zone,
Yantian District, Shenzhen.CHINA
518083

Version: March 2023

Information in this brochure is updated to [3/10/2023] and only for your reference. In no event shall the brochure be regarded as warranty or commitment made by MGI Tech Co., Ltd. All rights and obligations shall be subject to the final executed agreement.



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