



MGIGLab-L

Automated Library Preparation Production Line

- Ultra High-throughput
- Walk-Away Automation
- Intelligent Customization



MGI, Best Automated Genomics Production Line Package Partner

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.

With more than 20 years' experience in genomics application and advanced capabilities in instrument manufacturing and system integration, MGI is able to provide customized system design, professional service of integration and installation, ensuring that customers have ultra high-throughput automated genomics production line packages.

Why MGI?

20+

More than 20 years' Experience
in Genomics Application



Professional and Specialized
Automation Development Team



Instrument, Integration and
Software Total Package



Always Customer Focus
with Customized Service

MGI Automation Product Package

Automated Sample
Preparation System



MGISP-100

Modular
Workstation



MGIFLP-SL200

Automated
Production Line



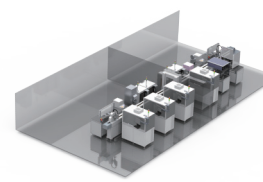
MGIGLab-S



MGISP-960



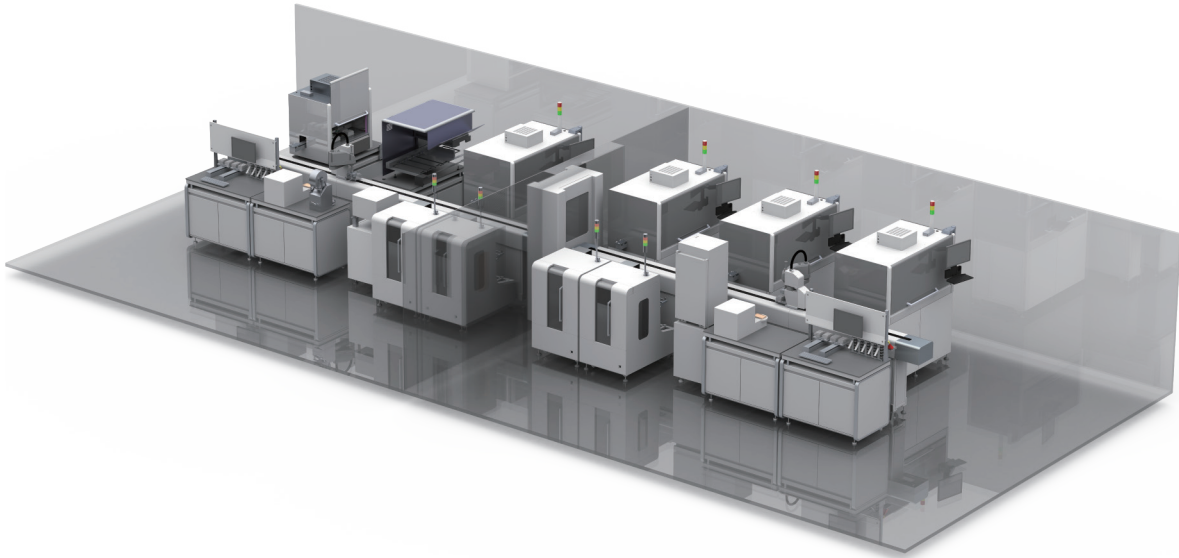
MGIFLP-L200



MGIGLab-L

MGIGLab-L Automated Library Preparation Production Line

Integrating different MGI and third-party instruments with automated robot on track, adopting streamlined design of stations, accomplishing complete library preparation workflow automation, making an annual production output of one million samples possible.



Efficient

From independent automation equipment to complete workflow, 7x24h operation



Intelligent

Layered management among production & instrument management under intelligent scheduling in parallel with control



Stable

Streamlined design of stations, independently process running without mutual interference



Integrated

Flexible integration of MGI and third-party instruments for different application



Real-time

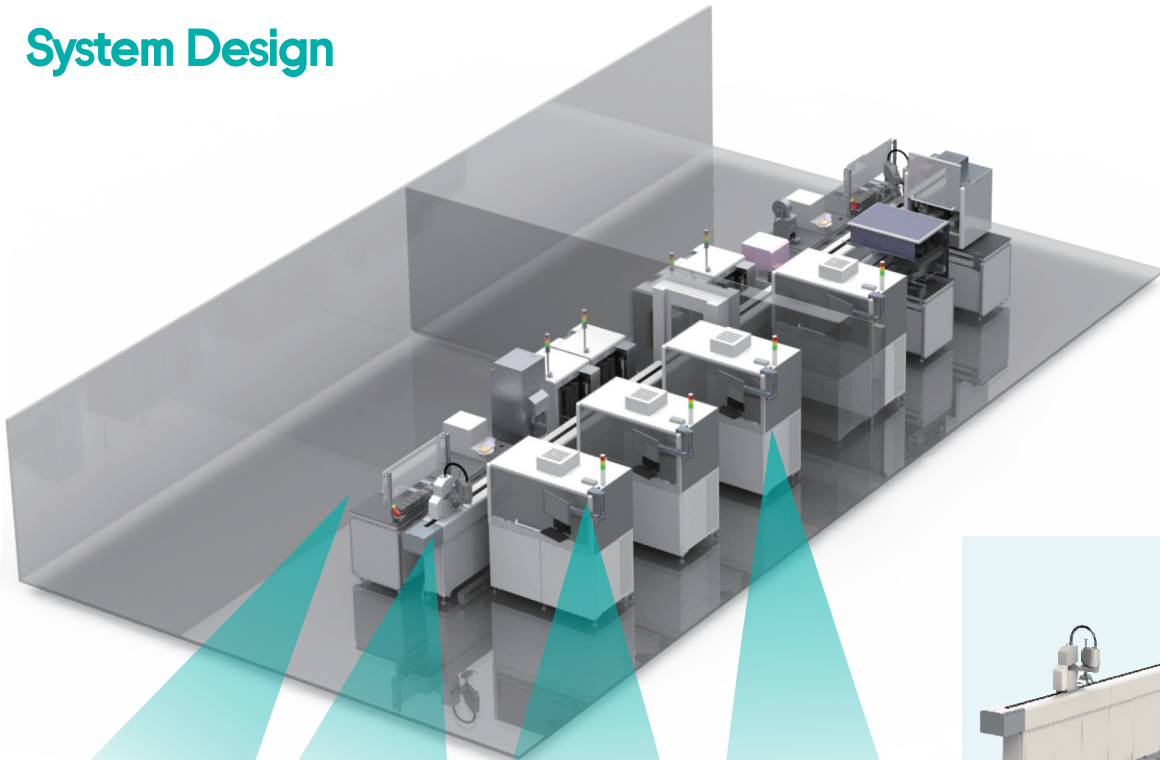
Various sensor detection and barcode scanning management, real-time production monitoring



Safe

Comprehensive hardware protection and software error management, maximum safety of samples and technicians

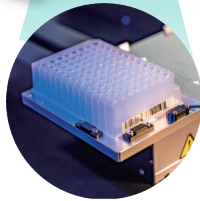
System Design



SCARA Robot 360° Plate Gripper



Precision Pipetting



Sample Loading in Human-Machine Interaction Area



Consumable Storage & Loading



Microplate Transfer Robot

SCARA robot on track, completing microplate transfer between instruments.



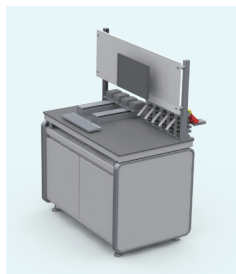
High-throughput Automated Sample Preparation System

96-channel High-precision pipetting head with gripper, Integrated PCR and temperature control module, performing nucleic acid extraction and purification, enzyme reaction and product purification.



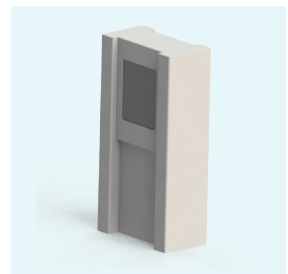
Microplate Storage Hotel

Storing and providing consumables and reagents under room temperature



Human-Machine Interaction Area

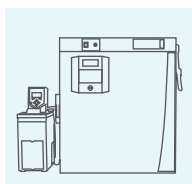
Production line control center as well as the human-machine interface.



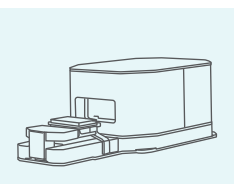
Microplate Delivery Window

Physically isolating pre-PCR and post-PCR areas, avoiding cross-contamination.

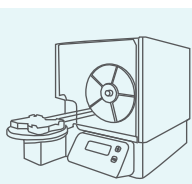
3rd Party Instrument



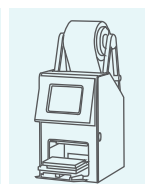
Low Temperature Incubation & Storage system



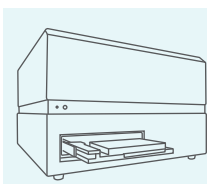
Microplate Centrifuge



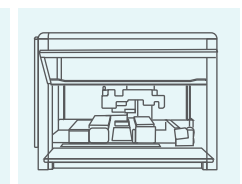
Automated Plate Seal Removal



Microplate Sealer



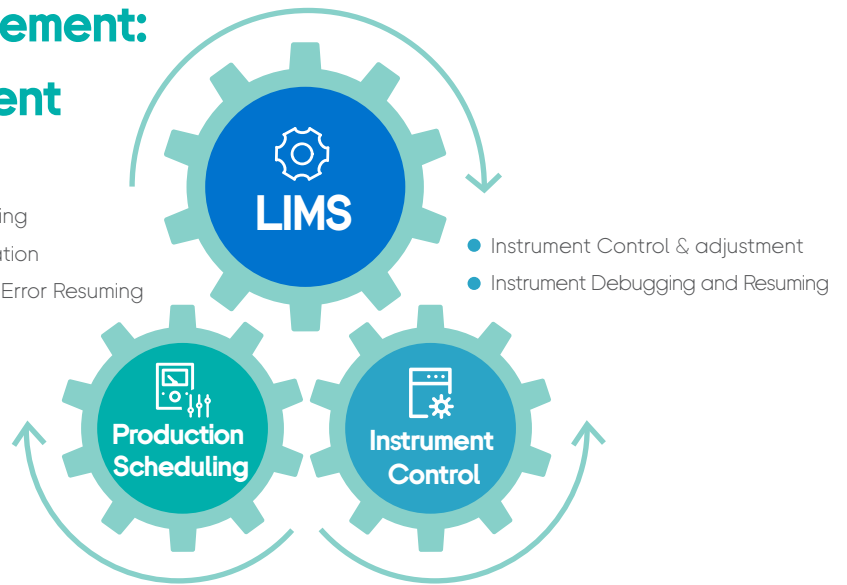
Microplate Reader



Liquid Handling Workstation

Classification Management: Production & Instrument

- Production Scheduling
- Production Prioritization
- Production Process Error Resuming



- Instrument Control & adjustment
- Instrument Debugging and Resuming

Intelligent Scheduling & Control



Intelligent

Efficient resource scheduling. Tasks are released according to production saturation, ensuring maximum production capacity.

IOT

Internet of instruments, ensuring real-time production monitoring.

Warning

1. Instrument abnormality.
2. Remaining quantity and real-time status of materials.
3. Non-conforming samples.

Convenient

User interface is simple and easy to operate.

Extendable

1. Supporting automated sample preparation.
2. Supporting quick extension of many more applications

Production Monitoring: Real-time & Visualization



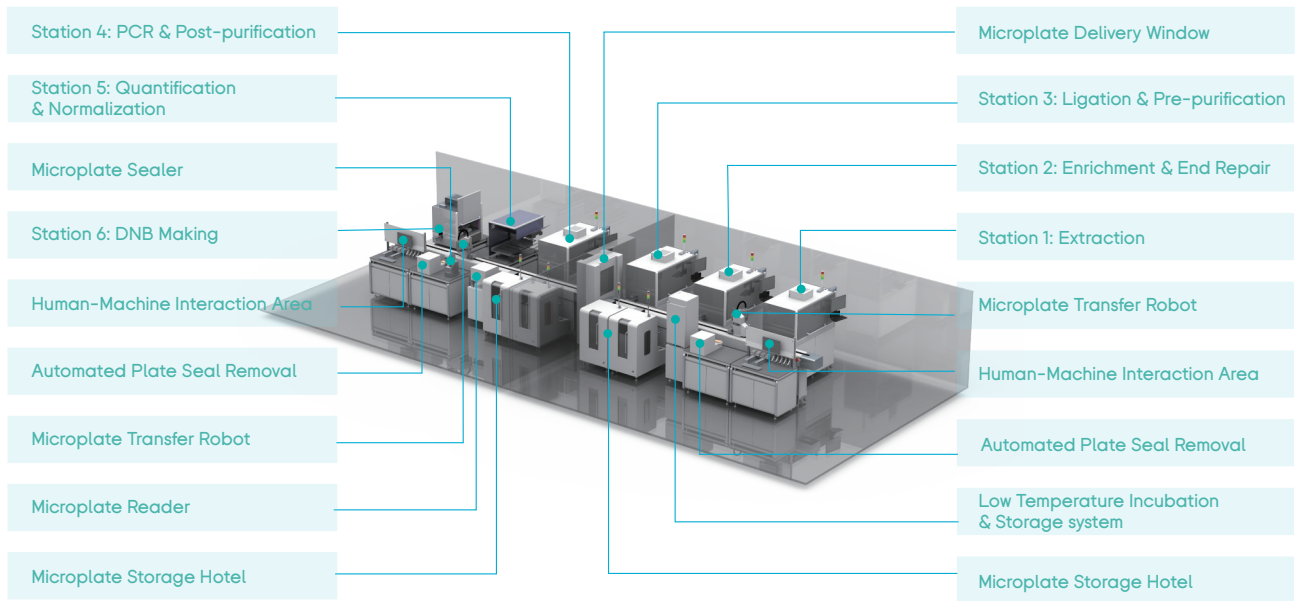
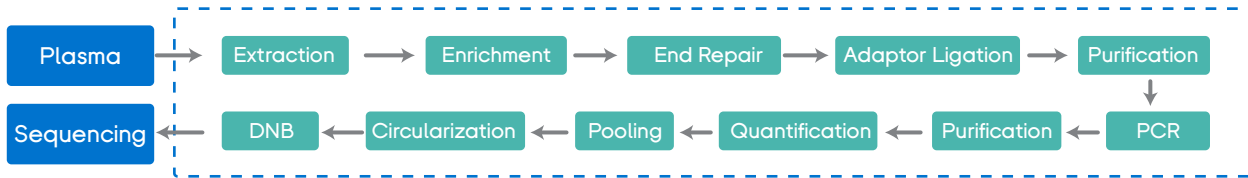
Sample Size

Sample & Instrument Warning

Production Schedule & Instrument Status Monitoring

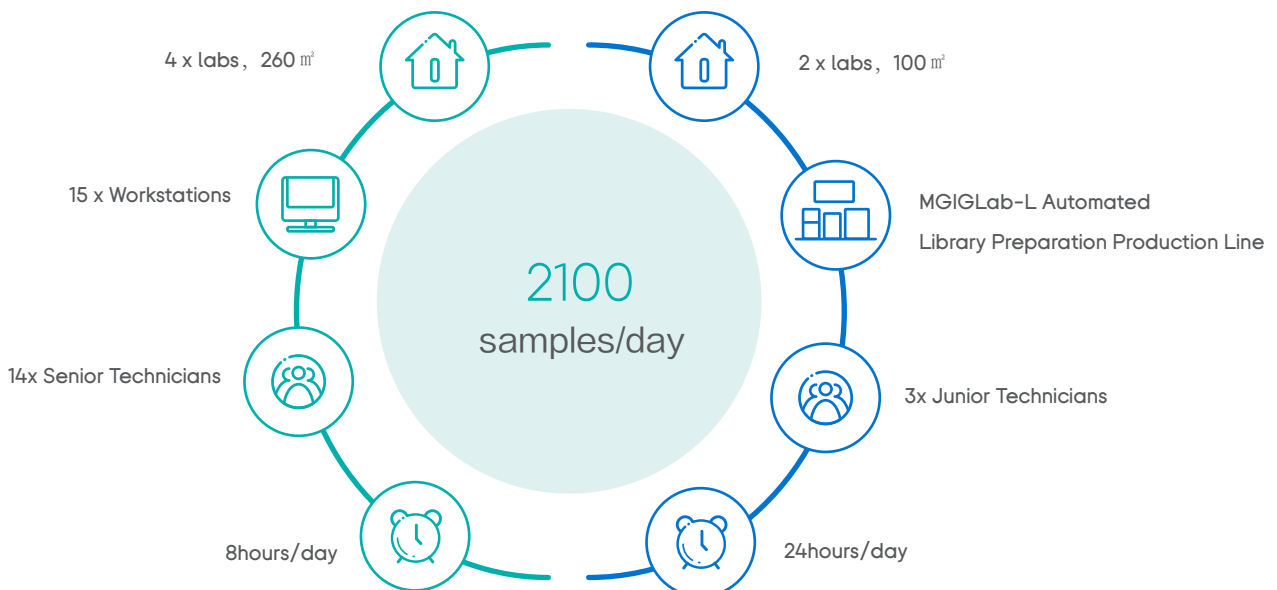
Production Line Monitoring

MGIGLab-L Automated Library Preparation Production Line for NIPT Laboratory

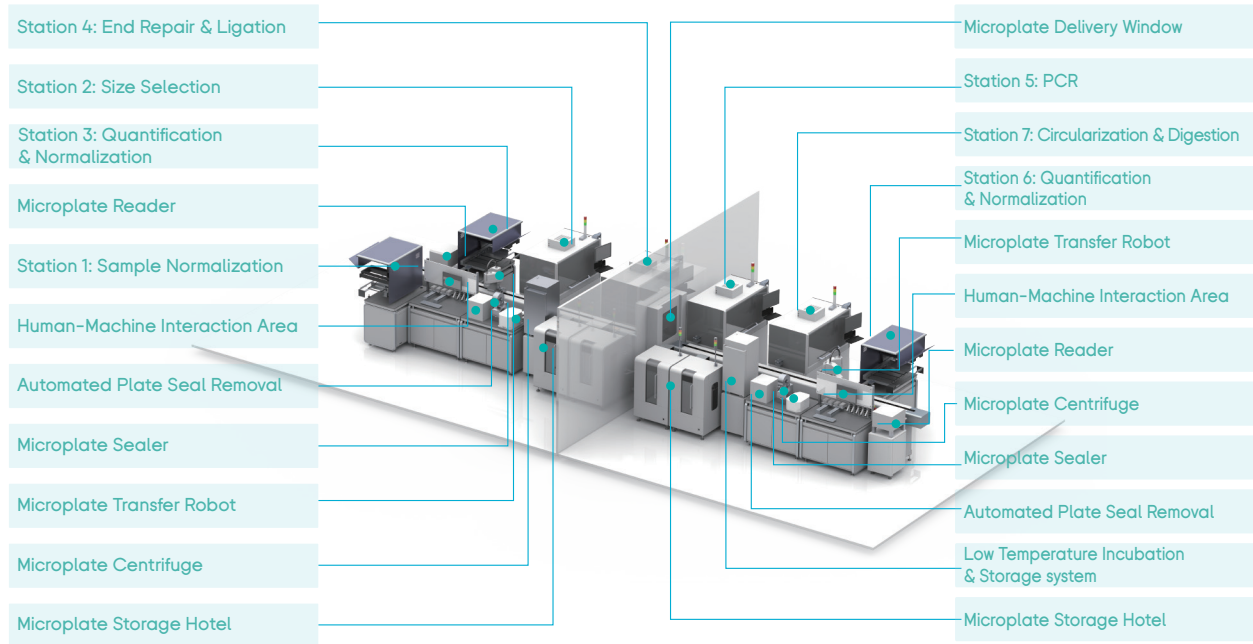
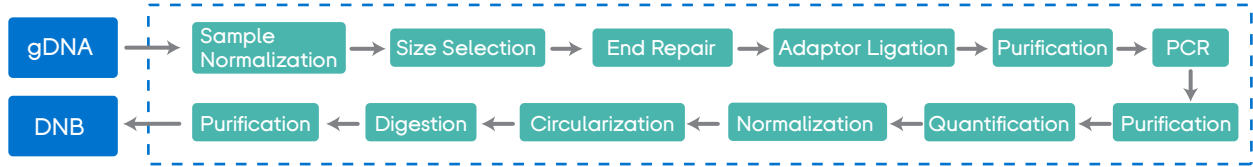


Semi-automated Library Preparation Workstations

MGIGLab-L Automated Library Preparation Production Line for NIPT Laboratory

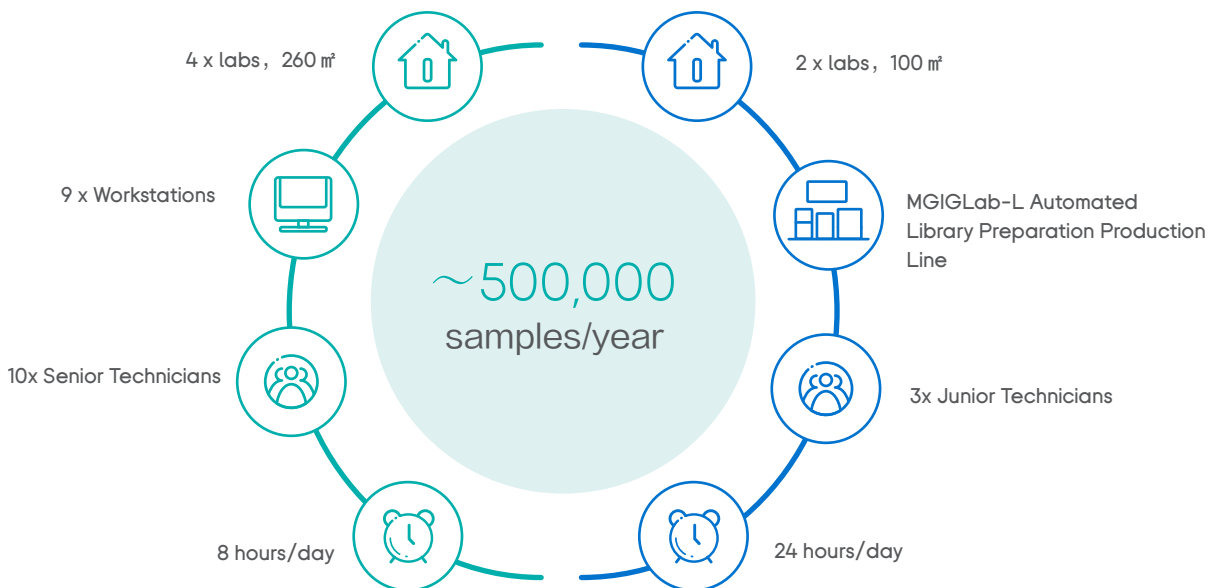


MGIGLab-L Automated Library Preparation Production Line for WGS Laboratory



Semi-automated Library Preparation Workstations

MGIGLab-L Automated Library Preparation Production Line for WGS Laboratory





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