

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?



More than 20 years' Experience in Genomics Application





Professional and Specialized Automation Development Team



Always Customer Focus with Customized Service

MGI Automation Product Package



Automated Sample

MGISP-100



MGISP-960

Modular

Workstation

MGIFLP-SL200



Automated

Production Line



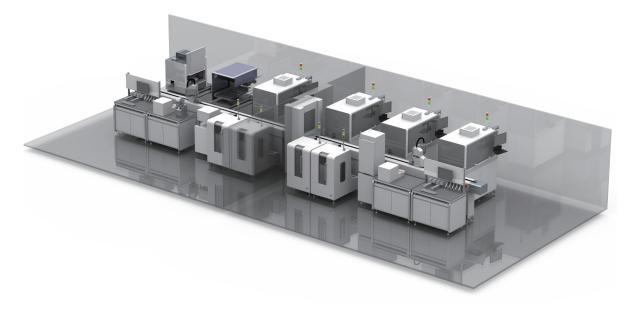


MGIFLP-L200

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.





From independent automation equipment to complete workflow, 7x24h operation



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



Streamlined design of stations, independently process running without mutual interference



Integrated

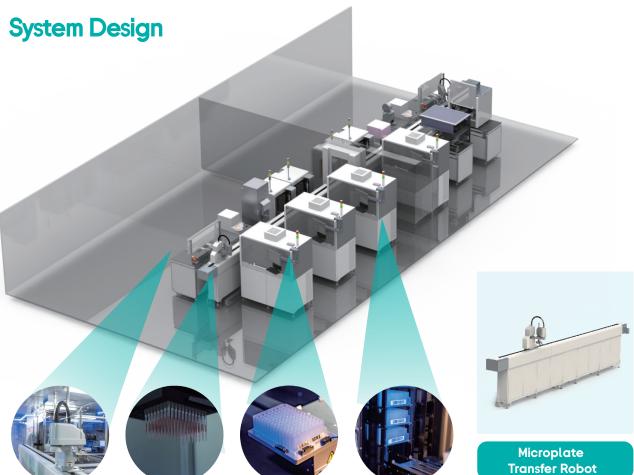
Flexible integration of MGI and third-party instruments for different application



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



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



SCARA Robot 360° Plate Gripper



Sample Loading in Human-Precision Pipetting Machine Interaction Area

Consumable Storage & Loading



Human-Machine

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

SCARA robot on track, completing microplate transfer between instruments.



Microplate Delivery Window

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



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

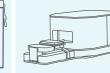
Storing and providing consumables and reagents under room temperature



Interaction Area

3rd Party Instrument













Low Temperature Incubation & Storage system

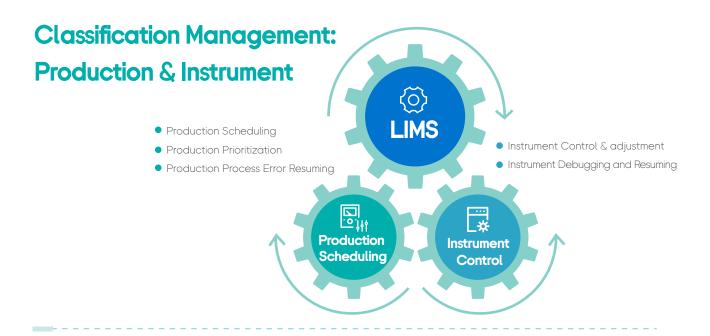
Microplate Centrifuge

Automated Plate Seal Removal

Microplate Sealer

Microplate Reader

Liquid Handling Workstation



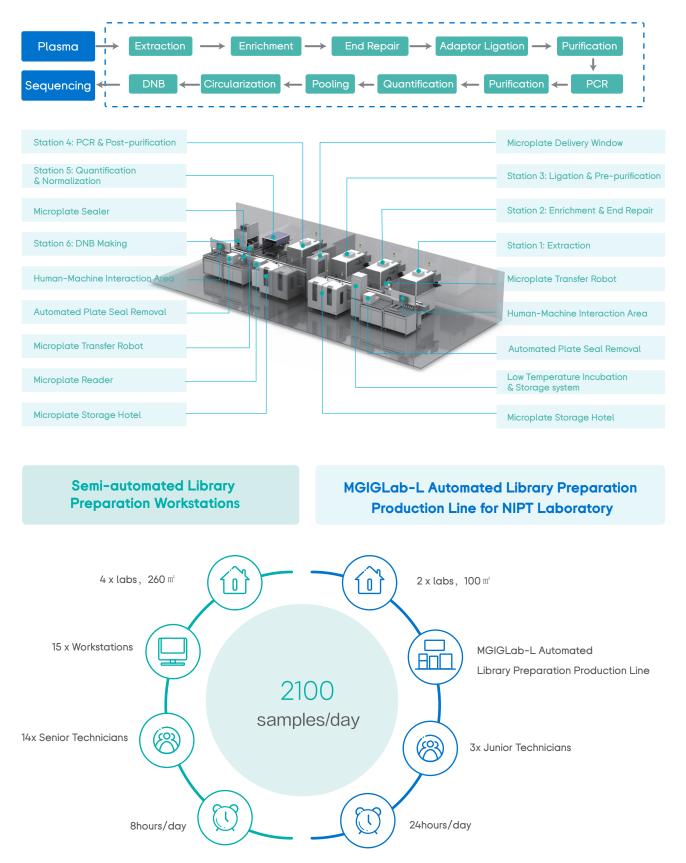
Intelligent Scheduling & Control



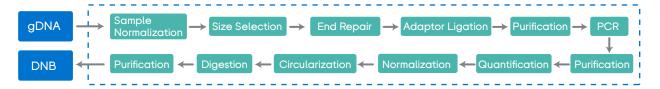
Production Monitoring: Real-time & Visualization

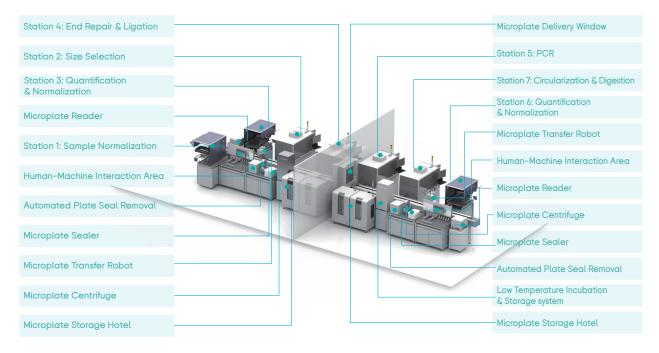


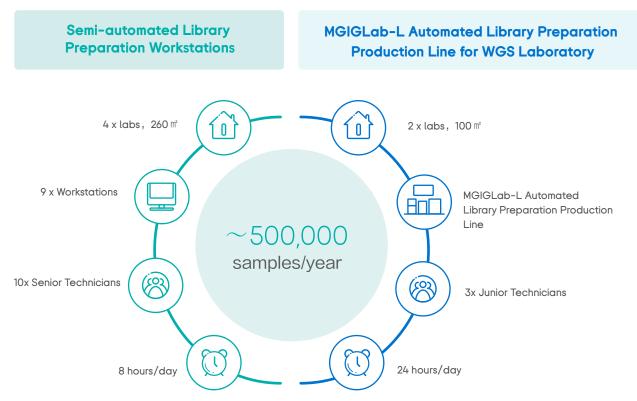
MGIGLab-L Automated Library Preparation Production Line for NIPT Laboratory



MGIGLab-L Automated Library Preparation Production Line for WGS Laboratory









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Version: November 2022 | MGPC5013002

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