

passionate people.
trusted lab integration.

CyBio automation

Lab automation solutions

analytikjena
An Endress+Hauser Company

Lab automation solutions

From concept to integration

We are ready to listen to your needs. Depending on your application and degree of automation, we are happy to consult you to choose the integration concept perfectly suited to your needs.

Fully automated systems
- Adapted to individual workflows and throughputs
- Scalable to grow with your demands
- Customized down to the smallest detail



Small scale benchtop workstations
- CyBio Carry integrations
- Different rail lenght availabe
- True collaborative
- Full standalone accessibility of all integrated systems

Personnel and product protection
- Standard housings or automated system within biosafety environment
- Full air conditioning and HEPA filtration available



- Scara 4 axis robotic arm **PreciseFlex** standard and extended reach

Lab robotic arms
- For maximum flexibility and a variety of conceptions

- Full collaborative 2 axis linear robotic arm **CyBio Carry** with different rail lengths from 1200 to 2000 mm

- Scara 4 axis robotic arm **PreciseFlex** with rail movement (different rail lengths available)

CyBio automation

Tailored to your needs

Put more than 30 years of experience in lab automation to work for you

Whether your research is still mainly manual or you are an experienced automation user, our solutions can help to increase the pace of your discovery.

Analytik Jena is a global life sciences enterprise with its headquarters in Jena, Germany, and offices around the world. Being the inventor of multi-channel pipettors, we are known for our excellent liquid handling instruments.

Our Automation group combines this expertise with personalized service, powerful software and proven third-party products to create fully integrated systems.
Our goal is to help you meet the increasing demands of your research with high quality, high-throughput solutions that boost productivity and enable true walk-away automation.

In the pharmaceutical and life science industries, our products enjoy the highest reputation for precision, reliability and simplicity.
We seek to maintain and further develop a close relationship with our clients, as we perceive this dialogue as an excellent opportunity to continuously improve the quality of our products and services and to develop new technologies and applications.
Originally established by CyBio AG, the products extend the portfolio of Analytik Jena since 2009.

On-demand lab automation

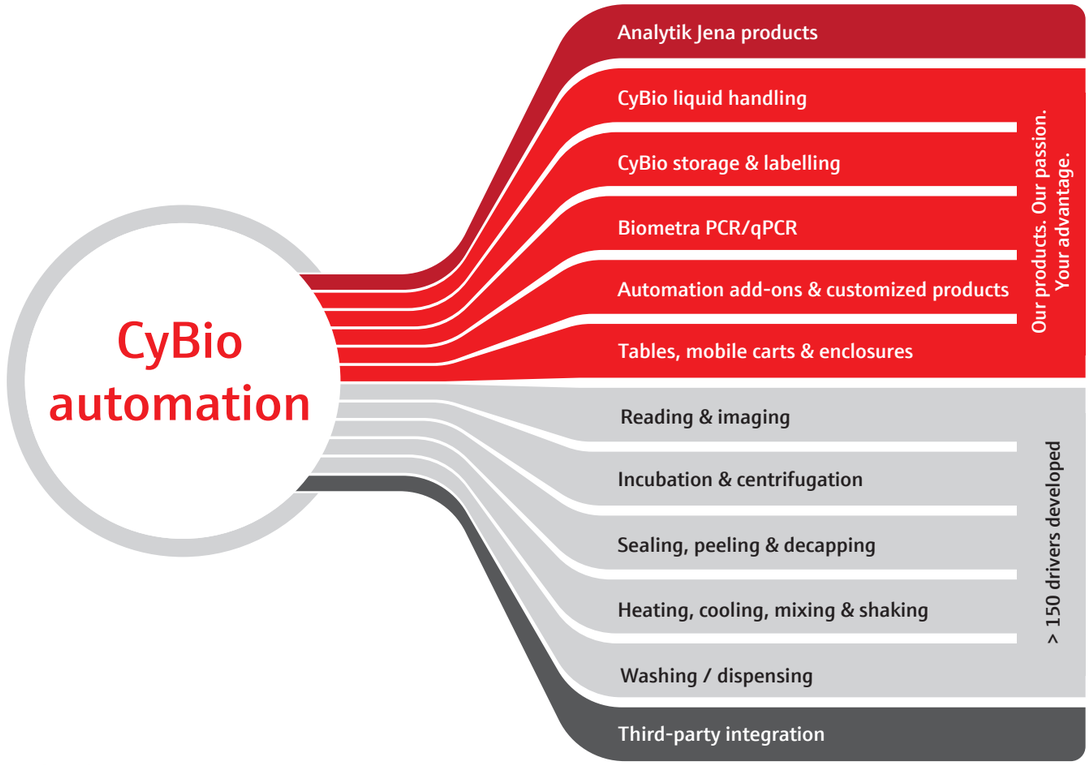
- CyBio Liquid Handlers and expertise in automated liquid handling as key elements
- Individual solutions in hardware and software
- Broad catalog of accessories in addition to third-party integrations
- All from one source: tables, racks, mobile carts, housings, and electrical systems
- Software solutions for control, scripting, and scheduling
- Consulting, project management, application know-how, and comprehensive after-sales support



Instruments and components

Superior quality and reliability. Analytik Jena manufactures a range of precision liquid handling and plate storage instruments with a comprehensive set of functional modules that form the base of fully automated integrations.

Tailored solutions for diverse needs: from varied applications to unique requirements, every single component plays a crucial role, and that's where our expertise shines. We integrate only the highest-quality products into CyBio Automation Workstations supporting a broad spectrum of applications, including traditional drug discovery, cell-based assays, and molecular biology workflows such as PCR, nucleic acid extraction, and gene expression analysis.



Third-party integrations

Analytik Jena automation supports the integration of a variety of third-party components such as incubators, washers, centrifuges, shakers, readers, cytomats, microscopes and a lot more.

- CyBio Composer and CyBio Scheduler support already more then 150 instruments
- Open driver interface
- On-demand development of plug ins for new third-party products

4titude · Agilent · BioTek · Brooks · Bruker · Dispendix · Fluidx · PAA · QInstruments · ThermoFisher Scientific · Zeiss

Customized products
- System specific developments to optimize workflows
- Clever feature add-ons, e.g. turn station or lid handling

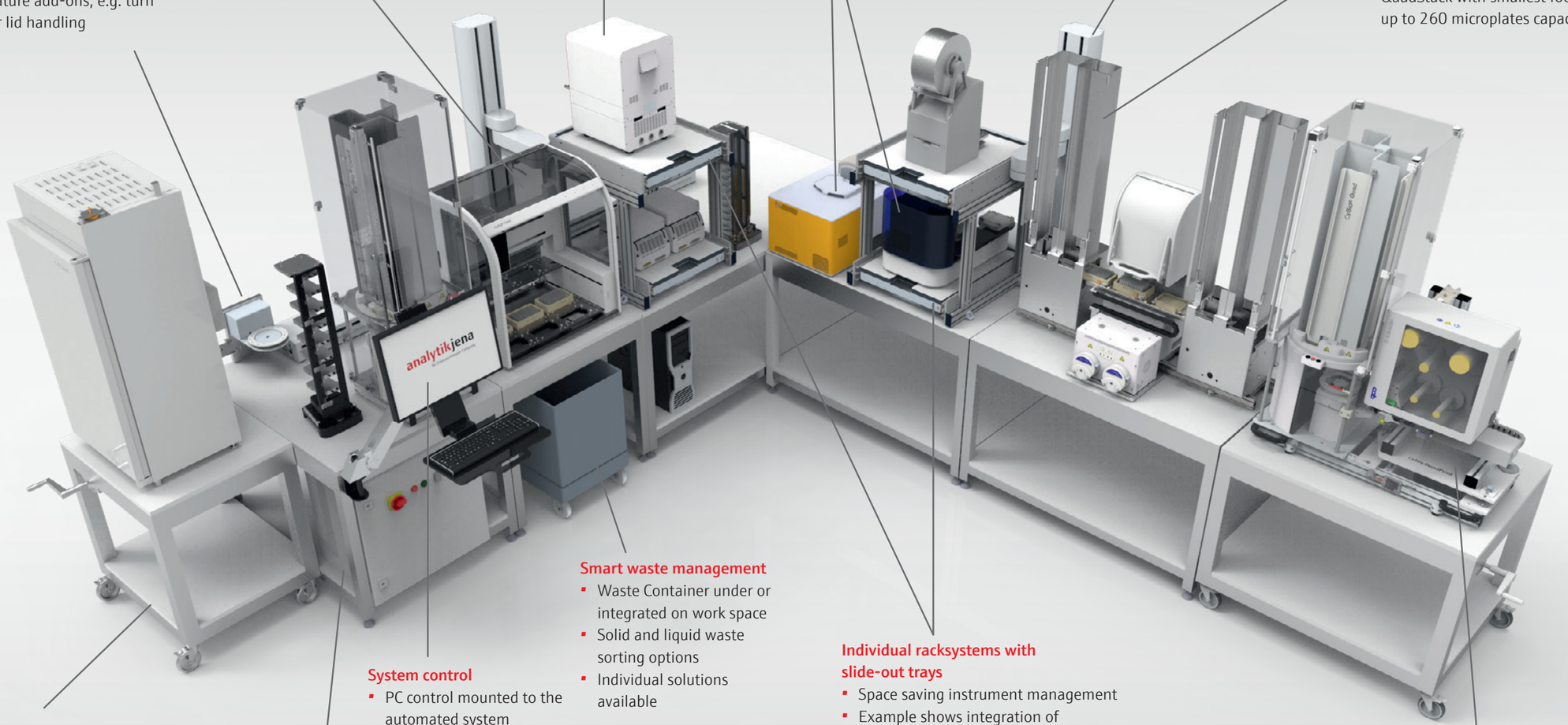
Keypiece:
Automated liquid handlers (ALHs)
- Highly flexible CyBio FeliX and high throughput CyBio Well vario
- Single channel up to 1536 well parallel pipetting
- 100 nL up to 1 mL

PCR & qPCR
- qTOWER³ auto and Biometra TRobot II integration

Third-party integrations
- > 150 drivers available
- Individual driver development
- Integration of lab equipment e.g. incubators, centrifuges, reader, sealer, peeler, cytomats, heating, shaking, cooling ...

Lab robotic arms
- Collaborative 2 axis or Scara Robot
- CyBio Carry or PreciseFlex
- Different rail lenghts available

Storage systems
- Flexible random access hotel racks & sequential stacks
- QuadStack with smallest footprint & up to 260 microplates capacity



Mobile docking carts
- Available in two standard designs either with connection using a crank handle or by using pneumatic setup
- Easy access, serviceability and re-arrangement of single units
- Sizes are specifically adapted to the instruments footprint
- Electrical connection and optional media supply

Electrical cabinet
- Arrangement and management of electrical & safety requirements
- Included in installation and setup

System control
- PC control mounted to the automated system
- Scripting Studio based on CyBio Composer Software
- Parallel and time optimized workflow execution using CyBio Scheduler
- Barcode reading and tracking of tubes and plates

Smart waste management
- Waste Container under or integrated on work space
- Solid and liquid waste sorting options
- Individual solutions available

Individual racksystems with slide-out trays
- Space saving instrument management
- Example shows integration of third-party Sealer & Peeler
- Slide out tray for easy instrument access e.g., for maintenance tasks

Plate labelling
- Automatic plate labelling using CyBio QuadPrint on small footprint
- Optional QuadStack storage options
- Different plate labels such as 1D/ 2D barcodes and text using PrintStudio software

Software

In the pursuit of efficient, reliable, and flexible laboratory automation, an overarching software concept is essential. Just as in a symphony, where each instrument plays a crucial role, the choice of software solutions orchestrates success.

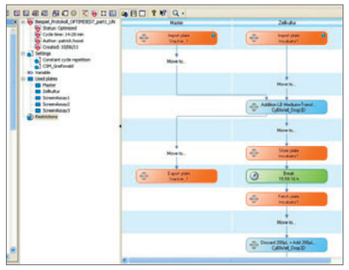
With all key technologies and expertise at hand, we're ready to build the perfect solution for your needs. We have everything you need to put together the ideal solution. Our powerful and scalable software packages allow for detailed control of a broad range of hardware modules and easy handling of complex scheduling tasks.

CyBio Composer is a powerful editor that allows you to write scripts and gain comprehensive control over devices from Analytik Jena and other providers. It supports numerous third-party devices with dedicated drivers and offers specific error management for each instrument. Its versatile batch processing functions make it ideal for small workstations. Experience precision and efficiency with the CyBio Composer and gain advanced control over your devices at the script level.

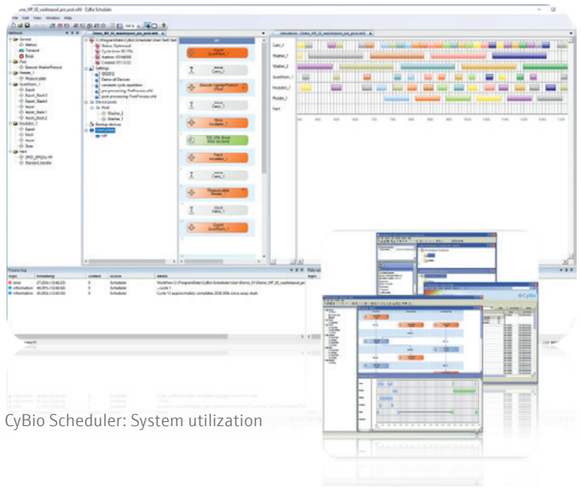
CyBio Scheduler offers the flexibility and precision needed to run your automation system. Regardless of assay complexity, it ensures reproducible and uniform conditions and results for each individual sample. With easy drag-and-drop workflow creation, powerful assay optimization, and precise simulation, the software manages processes with online visualization and interfaces with LIMS, network, and database. Features include automatic process optimization, tracking of all relevant sub-processes, and status tracking of all microplates. In addition, CyBio Scheduler enhances usability with start preselection, attachment of pre- and post-processes, automated preparation routines, and labware inventory management. CyBio Scheduler adapts to changing requirements, providing solutions for system modifications and efficient device utilization.

On-demand lab automation

- Comprehensive control and integration of hardware modules.
- Precise and flexible process planning and optimization.
- Support for numerous third-party devices.
- Easy adaptation to changing requirements and system expansions.
- Efficient error management and versatile batch processing functions.



CyBio Scheduler: Workflow definition



CyBio Scheduler: System utilization

Professional project management

Tailor-made solutions on schedule

Investing in laboratory automation is a significant decision, and at Analytik Jena, we understand the importance of having a trusted partner. Our automation experts are dedicated to developing innovative and competitive solutions. From initial consultation to system implementation and final testing, a dedicated project manager will guide you through every step. With professional planning, clearly defined responsibilities, and milestones, we ensure our tailor-made solutions are delivered on schedule.

Customers workflow

Precision perfected:
Our application experts listen attentively, refining your requirements for the desired automation solution. We leave no detail unexplored until we've crafted a tailored solution that matches your workflow seamlessly.

Consulting & conception

Tailored excellence:
We refine concepts with you, ensuring no detail is missed. Our priority is to maximize value by delivering only what's truly essential.

What we do:

- Application & throughput
- Hardware requirements
- Data handling and IT integration
- Site-specific adaptation

Solution proposal

Attention to detail:
Documentation is key to our process. We deliver clear, precise descriptions, because transparency in performance is just as vital as transparency in cost.

What we do:

- System layout in 2D & 3D
- Specifications & project plan
- Process simulation (on request)
- Detailed installation schedules

Setup & FAT

Streamlined time efficiency:
We value your time. That's why we plan efficiently and aim for 95% readiness at FAT — minimizing setup and time in your lab.

What we do:

- Coordination of necessary activities
- Milestone control & supervision
- Change management & cost control
- Factory Acceptance Test (FAT)

Installation & SAT

Reliable performance:
Experience seamless integration with our delivered workstations. Our team ensures swift setup and functionality, validated through rigorous SAT.

What we do:

- Assembly, setup, fine tuning & testing
- Site Acceptance Test (SAT)
- User Training (hard- and software)

Service & support

Our services. Our priority.
Our commitment to you extends beyond installation. We provide ongoing support, tailored training, technical assistance, regular maintenance, and swift repairs or calibrations. We prioritize reliability, knowing every minute of downtime means financial loss.

Application expertise

Unlock the future of laboratory automation with our expertise: Our extensive application experience distinguishes us in the pharma and life sciences sectors. We understand the characteristics of workflows typical in drug discovery, screening, cell applications, proteomics, or genomics.
Our project management team is composed of scientifically trained professionals, supported by application specialists. This unique combination allows us to communicate with our customers on a deeper level, unlike others who approach projects purely from a technical standpoint.
We also know the tricks and troubles that come with automation and plan for them from the outset.

By partnering with us, you gain a significant advantage. Our familiarity with your processes means you don't have to think of everything - we've got it covered. Experience the difference with Analytik Jena's CyBio Automation and streamline your laboratory operations with confidence.

What we cover:
- Hands-on training
- Proof of concepts
- Application & automation consulting
- Support for transitioning from manual to automated workflows



Genomic workcells

- Flexible assay optimization
- Stable core functions
- Easy upgrade options

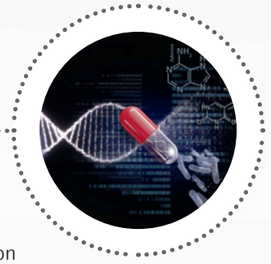


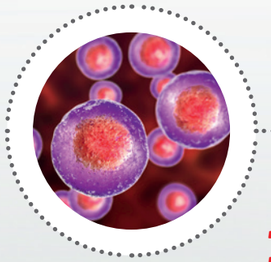




NGS

- Reliable library preparation
- Comprehensive quality control
- Automate complex workflows





Cell line development

- Biosafety environment
- Hit picking & normalization
- Monoclonality



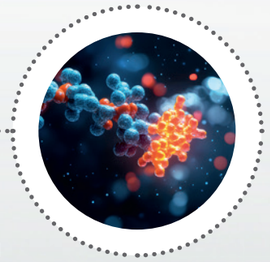


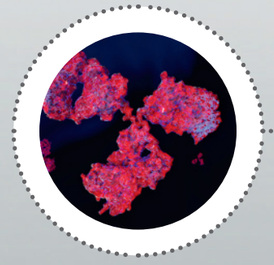
Application expertise in automation



MALDI-TOF-MS sample preparation

- Up to 1536 spots in parallel
- On-target washing
- Active drying





ELISA

- Increase throughput
- Optimized timing and pipetting processes
- Easy adaption to different assay types and formats

Cell-based assays

- Process integration
- Scalability
- Reduction of variability



Analytik Jena services

Your reliable and competent partner



Your benefits

- Our service staff delivers preventive maintenance and calibration visits according to our strict performance requirements
- Operator training including application support on-site or at our facilities
- Software updates and upgrades with installation and training
- Unlimited phone support
- Regional service network
- Factory trained field service engineers

Just call our service team

Service hotline and contact

- Maintenance & technical support:

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- Product inquiries & orders:

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