



**your automated application
starts here**

CyBio FeliX
Automated liquid handling

analytikjena
An Endress+Hauser Company

#HowToFeliX

Versatile platform for evolving applications

CyBio FeliX adapts effortlessly to a wide range of applications—from cell-based assays and nucleic acid extraction to proteomics, NGS workflows, and gene-based methods. Its modularity allows you to reconfigure and expand your setup as your assays evolve.



Basic liquid transfers

- Replication
- Serial dilution
- Prefilling
- Reformatting
- Low volume
- Pooling

Used for tasks like

- (q)PCR setups
- ELISA and enzymatic assays
- Protein purification
- Hit Picking
- Normalization
- NGS library preparation
- Cell handling

AppNote Highlights



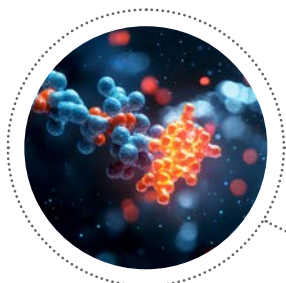
PhyTip® protein purification
See how CyBio FeliX enables fast, walk-away purification of up to 96 samples with high purity and consistency.



Simple Western™ Jess setup
Discover how CyBio FeliX automates Jess plate preparation to increase reproducibility and reduce manual handling.

Proteomics

- Extraction e. g., membrane proteins
- Assay preparation



Cell and gene therapy

- Transformation
- Gene assembly
- CRISPR
- Normalization
- Hit Picking



Nucleic acid extraction

- Ready-to-use protocols for DNA, RNA and plasmid extraction kits
- Support for diverse sample types (e.g., plant, bacteria and cultured cells)
- Magnetic bead-based cleanup for consistent, high-quality nucleic acids

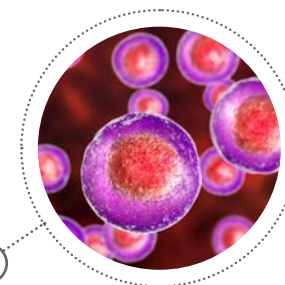


#HowToFeliX



Cell-based applications

- Cell-based assays (e.g., cytotoxicity, viability)
- Cellular applications (e.g., seeding, maintenance, scratching)



AppNote Highlight



Cryopreserved Tumor Cells with InSphero
Discover how CyBio FeliX streamlines cell-based workflows in real-world applications.

AppNote Highlight



sbeadex™ Lightning DNA purification
Discover how CyBio FeliX automates rapid, bead-based DNA cleanup for high-purity results with minimal hands-on time.



AppNote Highlights



Automated NGS purification & quantification
Discover how CyBio FeliX streamlines bead-based DNA purification and automated quantification to deliver consistent, ready-to-use samples for NGS workflows.



Bead-based NGS purification
See how CyBio FeliX streamlines magnetic-bead cleanup for fast, reproducible NGS library preparation.

Next-generation sequencing

- Extraction
- Library preparation
- Clean up & size selection
- Normalization & pooling



Liquid handling automation engineered to last

Automating assays doesn't have to be complicated. CyBio FeliX is a flexible, modular liquid handling platform with exchangeable pipetting heads and a compact two-level deck that delivers maximum functionality in minimal space. The result: a future-proof system that simplifies workflows, enhances precision, and adapts seamlessly to evolving applications.

Modular architecture & future ready design

- Modular platform with easily interchangeable pipetting heads
- Reconfigurable at any time to adapt to evolving applications
- Automatic switching between adapters, gripper and tips

Flexible pipetting performance

- Multi-format capability: 96, 384 and 1536 well
- Single-well, column and row pipetting
- Highest precision and accuracy across all formats

Compact, space efficient deck layout

- Unique two-level deck with twelve positions
- Full functionality in minimal bench space
- Supports plates, reservoirs, tubes, shakers, magnets, tip wash stations and more

Powerful & intuitive software ecosystem

- CyBio Composer for full scripting control of all device functions and parameters
- Automated monitoring of user permissions, interactions and execution logs
- CyBio Application Studio: ready-to-use, configurable GUI for non-programmers

Versatile platform for evolving applications

- Easily tailored to a wide range of assays
- Rapid reconfiguration for new workflows
- Ideal for labs that need scalability and long term flexibility



Your lab benefits: Save ...

- yourself from repetitive manual pipetting
- valuable lab space
- money with reliability, robustness and precision
- valuable time
- on upfront investments — automate today, scale up tomorrow

CyBio FeliX

Your automated application starts here



CyBio FeliX with enclosure

Modular architecture & future-ready design

A modular platform with easily interchangeable pipetting heads, fully reconfigurable at any time, ensuring a system built for today's workflows and ready for tomorrow's demands.



Redefining modularity: What CyBio FeliX delivers

CyBio FeliX can be configured exactly to your workflow by combining the right pipetting heads, accessories and deck tools – and reconfigured anytime as your needs change. Its modularity also enables seamless integration into larger automation systems, where CyBio FeliX becomes a flexible, high-precision pipetting module within complex workflows.



CyBio FeliX basic unit with enclosure

Flexible benchtop automated liquid handling platform with enclosure. Used as a stand-alone liquid handling system, it supports a broad range of applications including cell-based assays and cytotoxicity workflows, PCR setup and genomics, high-throughput screening and compound management, advanced biology tasks such as media exchange, and general reagent distribution.

CyBio FeliX basic unit in clean bench with light curtain

Used inside a clean bench with light curtain, it is typically applied to sterile cell-based workflows, contamination-sensitive genomics tasks such as PCR setup and nucleic acid extraction, and assay development steps that require a clean environment with safe, frequent user interaction.



CyBio FeliX basic unit with UV enclosure

Equipped with a UV cover for effective surface decontamination, this configuration is ideal for contamination-sensitive workflows such as PCR setup, NGS library preparation, and nucleic acid extraction, ensuring clean conditions without requiring a separate clean bench.

CyBio FeliX basic unit with opaque enclosure

Designed with a fully light-blocking, opaque housing, this model is ideal for light-sensitive assays and reagents. It is suitable for applications involving photolabile substrates, fluorescence- or luminescence-based chemistries, and other workflows that require protection from ambient light, ensuring a controlled dark environment that preserves signal quality and safeguards sensitive reagents.



scalability

Example of scalable automation: CyBio FeliX Workcell

A scalable example of what CyBio FeliX can grow into: the Workcell combines the liquid handler with compact storage and robotic handling to create an automated workflow on a standard bench. Additional automation concepts and integration options are available for labs requiring higher throughput or complexity: see page 15 of this brochure to dive deeper.

The right head for every application

Choose the pipetting head that fits your workflow: from high-precision multi-channel formats to flexible well-by-well pipetting, each head is designed to deliver optimal performance, precision and efficiency for your specific application.



CyBio FeliX CHOICE Head

The patent pending CHOICE technology offers you the flexibility to cover volume ranges from 1 μ L to 1000 μ L with only one head by loading appropriate CHOICE liquid handling adapters (LHA) and tips without manual intervention for highly precise and reproducible liquid handling results.



CyBio FeliX Robotic Heads - parallel transfer

Using the R-Series heads for parallel transfers enables efficient 96- or 384-channel pipetting by automatically loading CyBio RoboTipTrays, providing fast and reliable high-throughput transfers without manual handling.



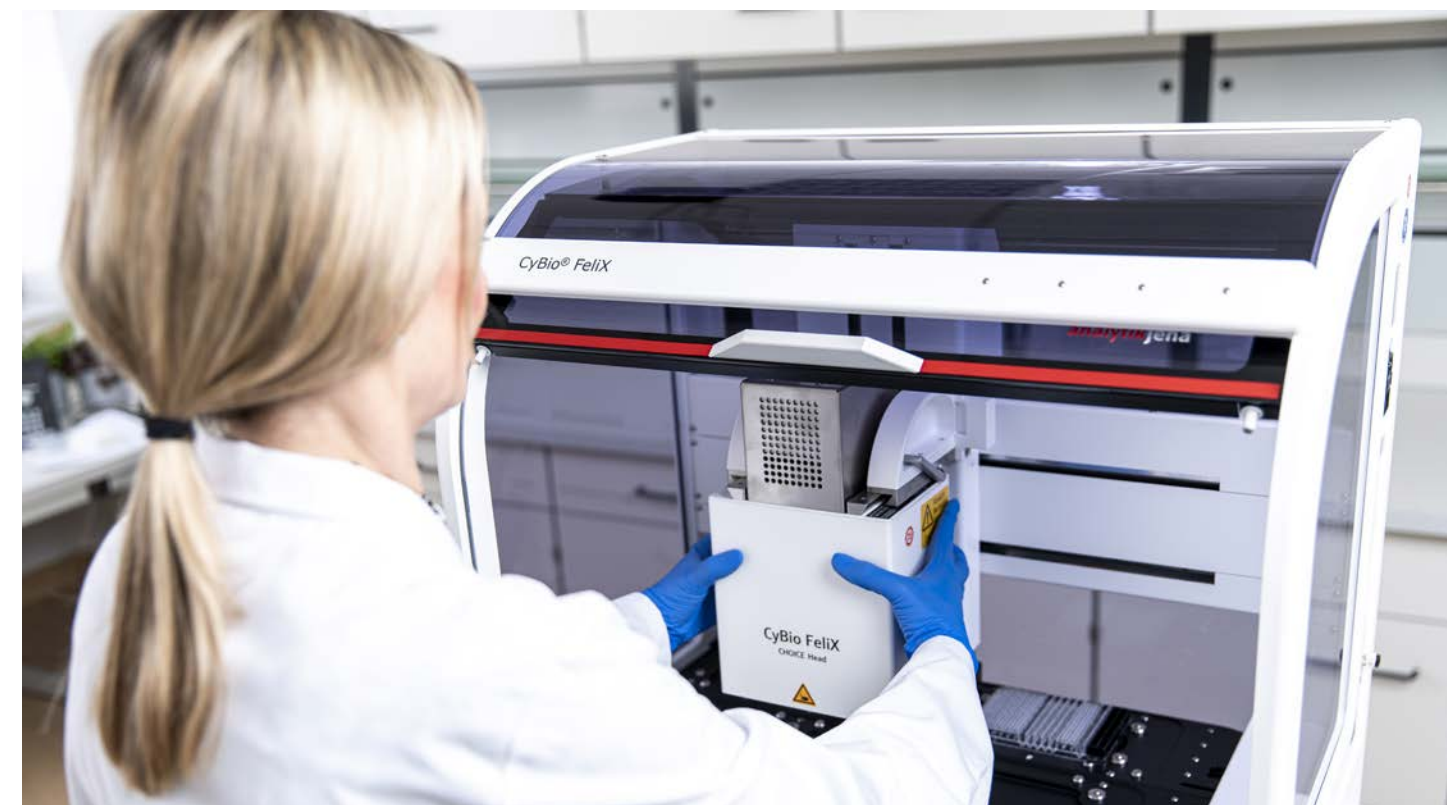
CyBio FeliX Robotic Heads - flexible transfer

R-Series heads also support flexible single-well, column, and row-wise pipetting by loading the appropriate liquid handling adapters (LHA) and CyBio tips automatically, allowing versatile format handling without changing the pipetting head.



CyBio FeliX SELECT Heads

The SELECT-Series Heads employ a novel technology enabling fast, high-precision pipetting across a volume range of 1 μ L to 1000 μ L. Selective transfer of individual volumes in up to 8-channels allow full format flexibility without changing the pipetting head.



Pipetting head specifications at a glance

Explore detailed specifications for all CyBio FeliX pipetting heads, including channel configurations, volume ranges, formats and compatible liquid handling adapters (LHA).

CyBio FeliX CHOICE Head

Head type	CHOICE Head		
LHA type	CHOICE 8- and 12 channel, 1 – 50 µL	CHOICE 1-, 16- and 24 channel, 1 – 50 µL	CHOICE 1-, 8- and 12 channel, 10 – 1000 µL
Tip type	TipBox 96/50 µL	TipBox 192/60 µL column TipBox 192/60 µL row	Tips from CyBio TipRack 96/1000 µL (blister) transferred in TipRack 96/1000 µL (holder) TipBox 96/1000 µL
Specified volume range Precision*	3 µL – 50 µL 3 µL – 10 µL CV ≤ 3% > 10 µL – 50 µL CV ≤ 2%	3 µL – 50 µL 3 µL – 10 µL CV ≤ 3% > 10 µL – 50 µL CV ≤ 2%	25 µL – 1000 µL 25 µL – 100 µL CV ≤ 3% > 100 µL – 1000 µL CV ≤ 2%
Unspecified volume range Precision	1 µL – < 3 µL CV ≤ 10%	1 µL – < 3 µL CV ≤ 10%	10 µL – < 25 µL CV ≤ 10%
Pipetting channels			

CyBio FeliX Robotic Head - parallel transfer

Head type	Head R 96/60 µL	Head R 96/250 µL	Head R 96/1000 µL	Head R 384/60 µL
Tip type	RoboTipTray 96/60 µL	RoboTipTray 96/250 µL	Tips from CyBio TipRack 96/1000 µL (blister) transferred in TipRack 96/1000 µL (holder)	RoboTipTray 384/60 µL
Specified volume range Precision*	3 µL – 60 µL 3 µL – 5 µL CV ≤ 2% > 5 µL – 60 µL CV ≤ 1%	10 µL – 250 µL 10 µL – 25 µL CV ≤ 2% > 25 µL – 250 µL CV ≤ 1%	25 µL – 1000 µL 25 µL – 100 µL CV ≤ 2% > 100 µL – 1000 µL CV ≤ 1%	3 µL – 60 µL 3 µL – 5 µL CV ≤ 2% > 5 µL – 60 µL CV ≤ 1%
Unspecified volume range Precision	1 µL – < 3 µL CV ≤ 10%	5 µL – < 10 µL CV ≤ 10%	10 µL – < 25 µL CV ≤ 10%	1 µL – < 3 µL CV ≤ 10%
Pipetting channels				

CyBio FeliX Robotic Head - flexible transfer

LHA type	for 1-, 8- and 12 channel			for 1-, 16- and 24 channel
Tip type	TipBox 96/50 µL	TipBox 96/250 µL	Tips from CyBio TipRack 96/1000 µL (blister) transferred in TipRack 96/1000 µL (holder) TipBox 96/1000 µL	TipBox 192/60 µL column TipBox 192/60 µL row
Specified volume range Precision*	3 µL – 50 µL 3 µL – 5 µL CV ≤ 3% > 5 µL – 50 µL CV ≤ 2%	10 µL – 250 µL 10 µL – 25 µL CV ≤ 3% > 25 µL – 250 µL CV ≤ 2%	25 µL – 1000 µL 25 µL – 100 µL CV ≤ 3% > 100 µL – 1000 µL CV ≤ 2%	3 µL – 50 µL 3 µL – 5 µL CV ≤ 3% > 5 µL – 50 µL CV ≤ 2%
Unspecified volume range Precision	1 µL – < 3 µL CV ≤ 10%	5 µL – < 10 µL CV ≤ 10%	10 µL – < 25 µL CV ≤ 10%	1 µL – < 3 µL CV ≤ 10%
Pipetting channels				

CyBio FeliX SELECT Head

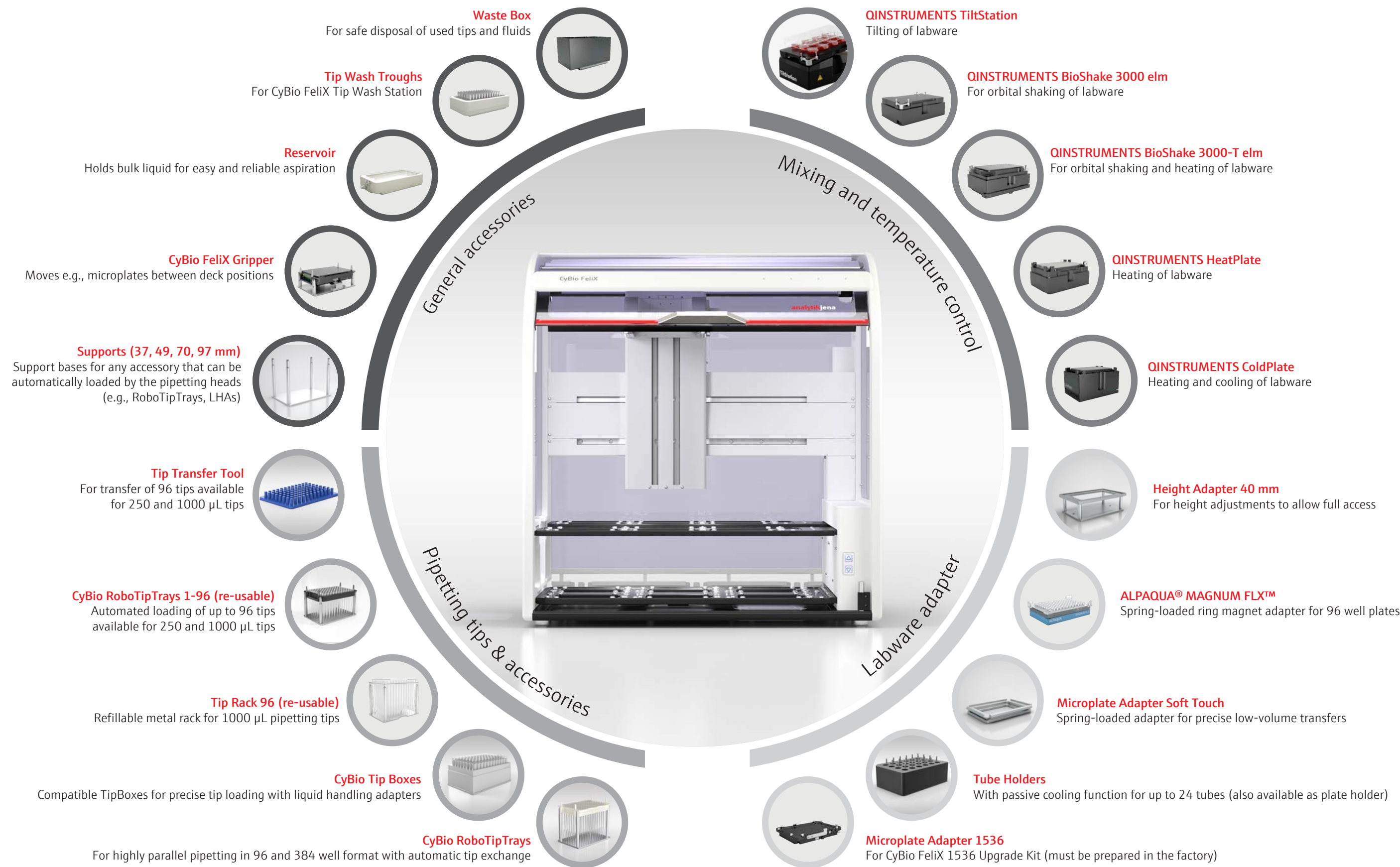
Head type	SELECT Head 8/50 µL for 1 to 8-channel	SELECT Head 8/250 µL for 1 to 8-channel	SELECT Head 8/1000 µL for 1 to 8-channel
Tip type	TipBox 96/50 µL	TipBox 96/250 µL	Tips from CyBio TipRack 96/1000 µL (blister) transferred in TipRack 96/1000 µL (holder) TipBox 96/1000 µL
Specified volume range Precision*	1 µL – 50 µL 3 – 5 µL ≤ 3% 5 - 50 µL ≤ 2%	5 µL – 250 µL 10 – 25 µL ≤ 3% 25 µL – 250 µL ≤ 2%	10 µL – 1000 µL 25 – 100 µL ≤ 3% 100 - 1000 µL ≤ 2%
Pipetting channels			

*All precision specifications are based on the standard absorbance measurement procedure as described in the pipetting head manual and depend on the selected pipetting head, liquid handling adapter and tip type. The testing methodology is in accordance with IS 23783-2, Chapter 5.4, and the supplementary specifications outlined in Annex F (for details see: www.iso.org).

Compact, space efficient deck layout

With its unique two-level deck and twelve positions, the CyBio FeliX delivers full functionality in minimal bench space.

Following a modular concept, the CyBio FeliX offers great flexibility and upgradeability through a broad range of tools and accessories.



Compact by design – proven by data

CyBio FeliX combines a remarkably compact footprint with high-performance specifications. Explore the key dimensions, volume ranges and capacities that enable powerful liquid handling workflows on any standard lab bench.



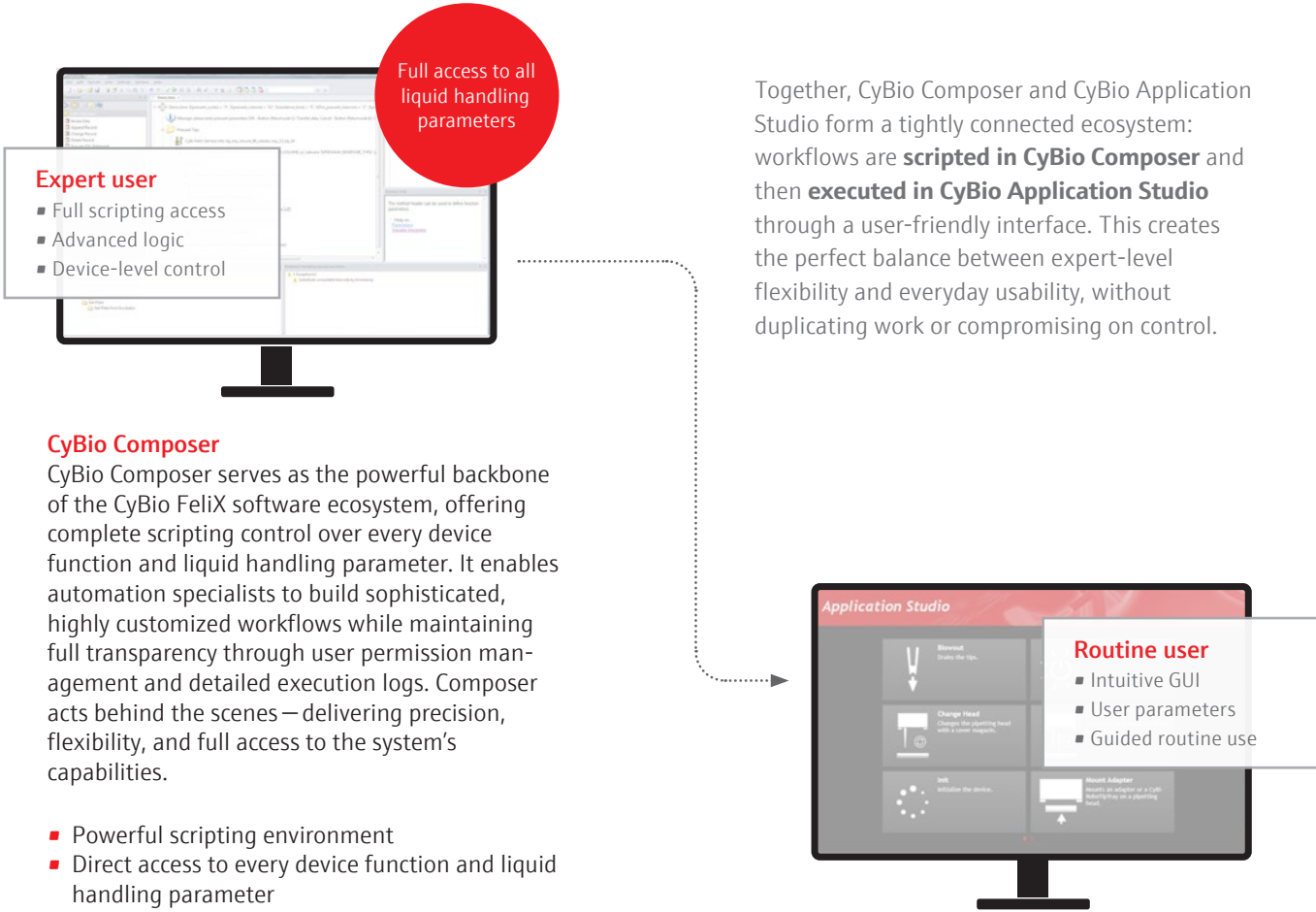
Designed to maximize capability on the smallest footprint.

Dimensions (W × D × H)	650 × 450 × 698 mm*
Weight basic unit:	approx. 50 kg
Weight pipetting head:	approx. 7 kg
Working positions	12
Pipetting channels	1 – 384
Volume range	1 µL – 1000 µL**
Plate formats	24, 96, 384, 1536
Tube formats	0.2 mL – 5.0 mL
Pipetting tips	Disposable tips

* Depending on selected system configuration
** Depending on selected pipetting head

Powerful & intuitive software ecosystem

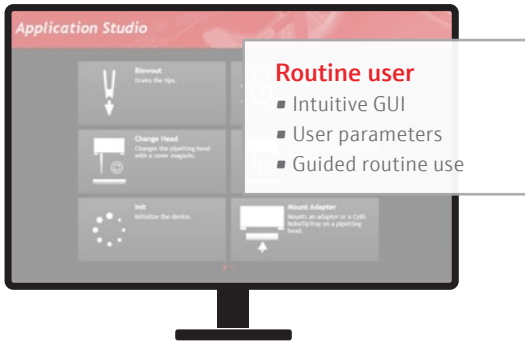
A powerful scripting engine meets an intuitive interface – giving you full flexibility from complex protocol logic to simple, guided execution. Everything works together seamlessly.



CyBio Composer
CyBio Composer serves as the powerful backbone of the CyBio FeliX software ecosystem, offering complete scripting control over every device function and liquid handling parameter. It enables automation specialists to build sophisticated, highly customized workflows while maintaining full transparency through user permission management and detailed execution logs. Composer acts behind the scenes – delivering precision, flexibility, and full access to the system’s capabilities.

- Powerful scripting environment
- Direct access to every device function and liquid handling parameter
- Connectivity to databases and LIMS possible

Together, CyBio Composer and CyBio Application Studio form a tightly connected ecosystem: workflows are **scripted in CyBio Composer** and then **executed in CyBio Application Studio** through a user-friendly interface. This creates the perfect balance between expert-level flexibility and everyday usability, without duplicating work or compromising on control.



CyBio Application Studio
CyBio Application Studio provides an intuitive, ready-to-use graphical interface that allows users without programming experience to run parametrized workflows created in Composer. With a clean, touchscreen-optimized design, it enables quick input of key values such as sample numbers or reaction volumes, ensuring reliable execution every time. Application Studio turns complex protocols into simple, guided user experiences – ideal for routine use and shared lab environments.

- Ready-to-use graphical user interface
- Configurable design
- Well suited for touch screen applications, as well as PCs

**Smart features for easier workflow setup**

- Create custom logic in Composer once and reuse it flexibly across different applications
- Run workflows with just a few inputs (e.g., sample numbers, and volumes)
- Guided user instructions for labware placement and preparation steps
- Consistent execution across the team thanks to standardized, front-end-driven workflow runs

Beyond benchtop – discover scalable automation

Flexible workcells, advanced robotics and full system integrations – automation designed to grow with your applications.

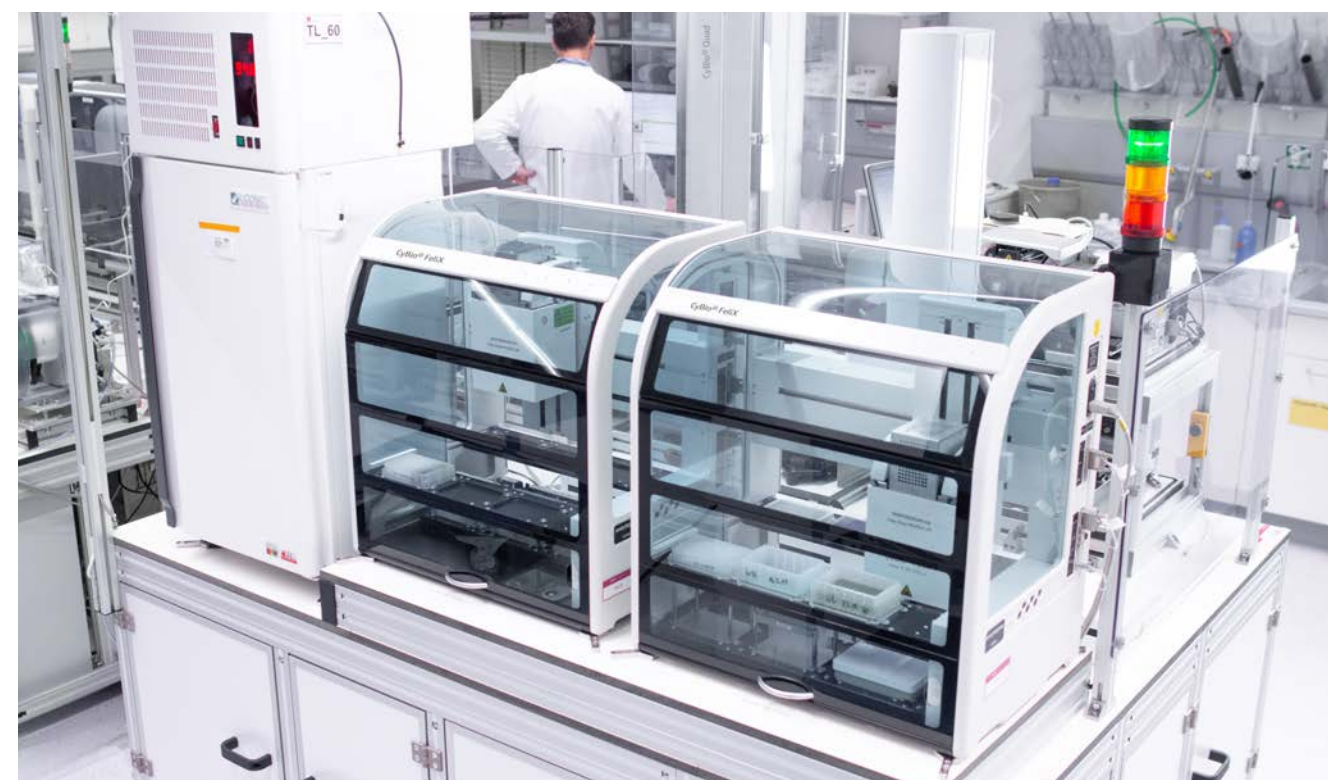
CyBio FeliX can grow far beyond benchtop. From coordinated multi-FeliX setups to modular workcells and fully integrated robotic systems, our automation solutions adapt to your throughput and workflow needs. With more than 150 integrated device drivers, we offer scalable, and customized concepts that turn your processes into true walk-away automation. We manage the entire project, from understanding your challenge to delivering a turnkey solution with seamlessly integrated third-party devices. You get a system that fits your lab, your applications and your future requirements. Discover our pre-configured solutions for a number of applications e.g., NGS library preparation or ELISA setups.



Explore full integration concepts



See how CyBio Automation brings together project planning, system integration and third-party devices to create fully integrated workflows.



Your partner in service

Our highly trained and motivated service staff ensures less downtime with yearly preventive maintenance and calibration visits. We offer operator training and application support on site and at our facilities.



Service

**We care about
your success.**

**Our highly skilled
service staff
is committed to
excellence.**

**We set the
standard in
product
innovation.**



Your benefits

- Software upgrades with installation and training
- Online and phone support
- Worldwide service network
- Factory trained field service engineers
- 24-48 hour on-site service response*

*Based on service contracts

Contact our local service centers for more information

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Pictures: Analytik Jena GmbH+Co. KG (unless otherwise noted)
Subjects to changes in design and scope of delivery as well as further technical development!
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