



# Flex up Your Team

Introducing the new Eppendorf epMotion® 96 Flex:  
The smart 96-channel liquid handling device to upgrade your pipetting game





»At the core of every discovery is a team fueled by passion and dedication.«

We understand that your lab team is the driving force behind innovation, and that is why we are excited to introduce our 96-channel pipetting system, epMotion® 96 Flex – your ally on your journey towards scientific excellence. With its intelligent features, the epMotion® 96 Flex is designed to elevate your lab's performance and take your experiments to the next level. It is time to transform routine tasks into effortless processes, it is time to flex up your team!



**96-Well? Done!**

Tired of time-consuming, endless pipetting steps? Say goodbye to your old grind and say hello to efficiency. The epMotion® 96 Flex's design enables fast and easy liquid handling in both 96-well and 384-well plates. Save time, reduce errors, and streamline your workflow.



**Fixes your posture**

With the intuitive user interface and all device interaction points, conveniently located at the lower part of the device, the epMotion® 96 Flex redefines user-friendliness. Experience easy and ergonomic handling even in clean benches, ensuring comfort in your daily routines.



**Entry Level Automation**

Experience the power of automation for an entry level price. The epMotion® 96 Flex performs tasks like plate reformatting, magnetic bead clean-up, and immunoassays almost as fast as large automated liquid handling systems. Yet, it does so without their high costs and long setup times, making it a cost-effective choice for your lab.





# Heads in Motion

Adapt to varying needs effortlessly. The epMotion® 96 Flex's exchangeable dispensing head design accommodates a very large volume range with only two dispensing heads and can handle less than 96 tips. This gives you full flexibility for your current and future applications.

- > Covering 0.5 µL to 1000 µL with only two dispensing heads
- > Use less than 96 tips for full flexibility
- > Easy exchange of dispensing heads, no tools needed
- > Including hardshell case for easy transport and storage

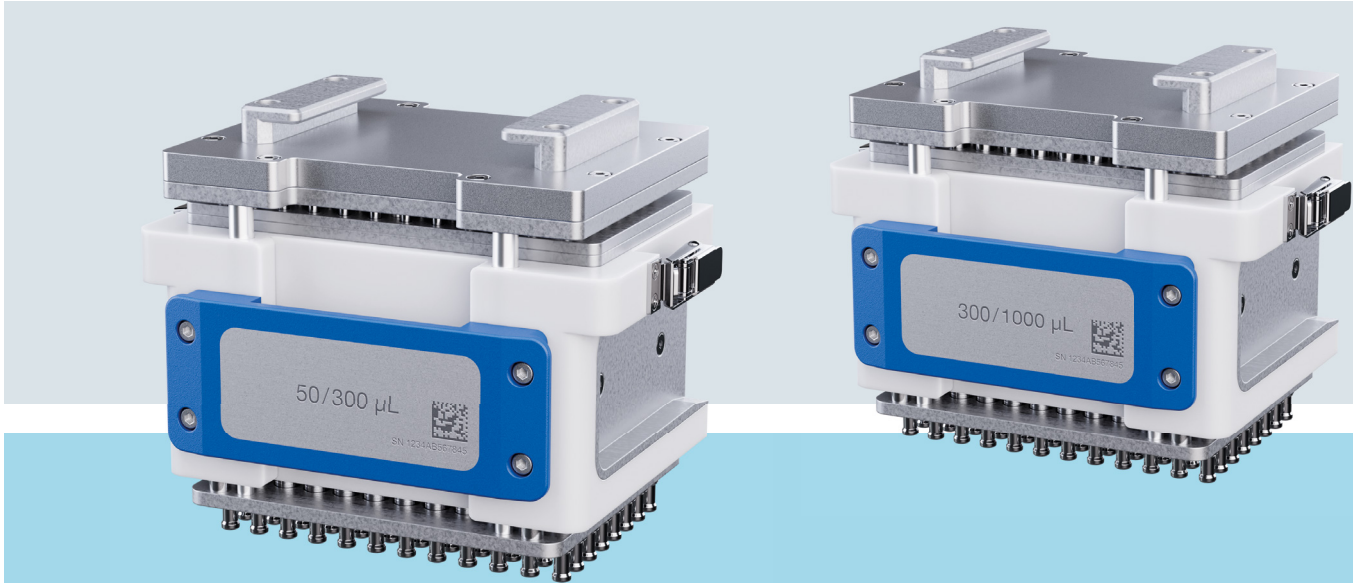


## ISO certified precision

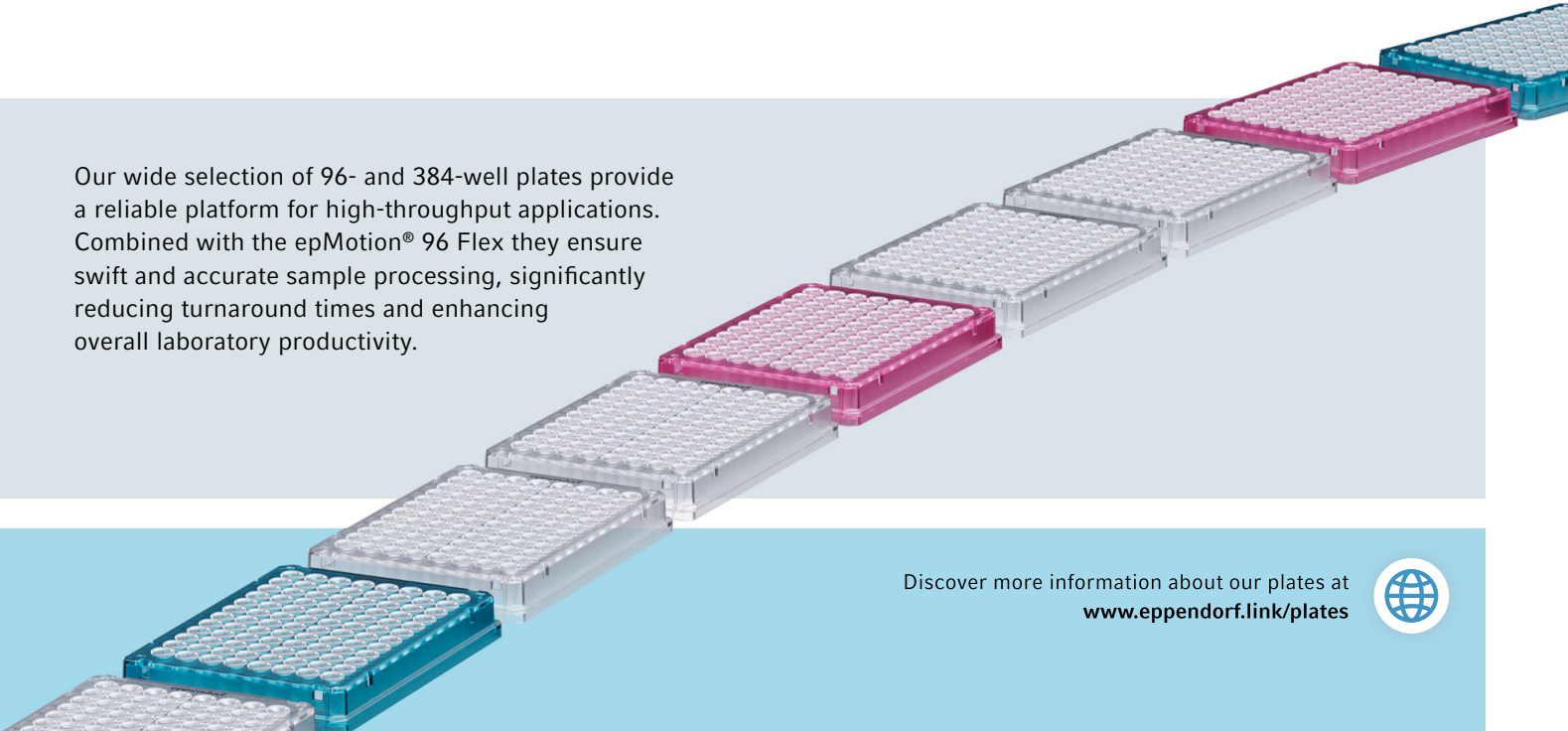
Trust in high levels of pipetting accuracy and precision. The epMotion® 96 Flex is calibrated according to ISO 23783-2 standards. This certifies exceptional precision to ensure the reproducibility of your assays making your results more reliable.

## Productivity times 96

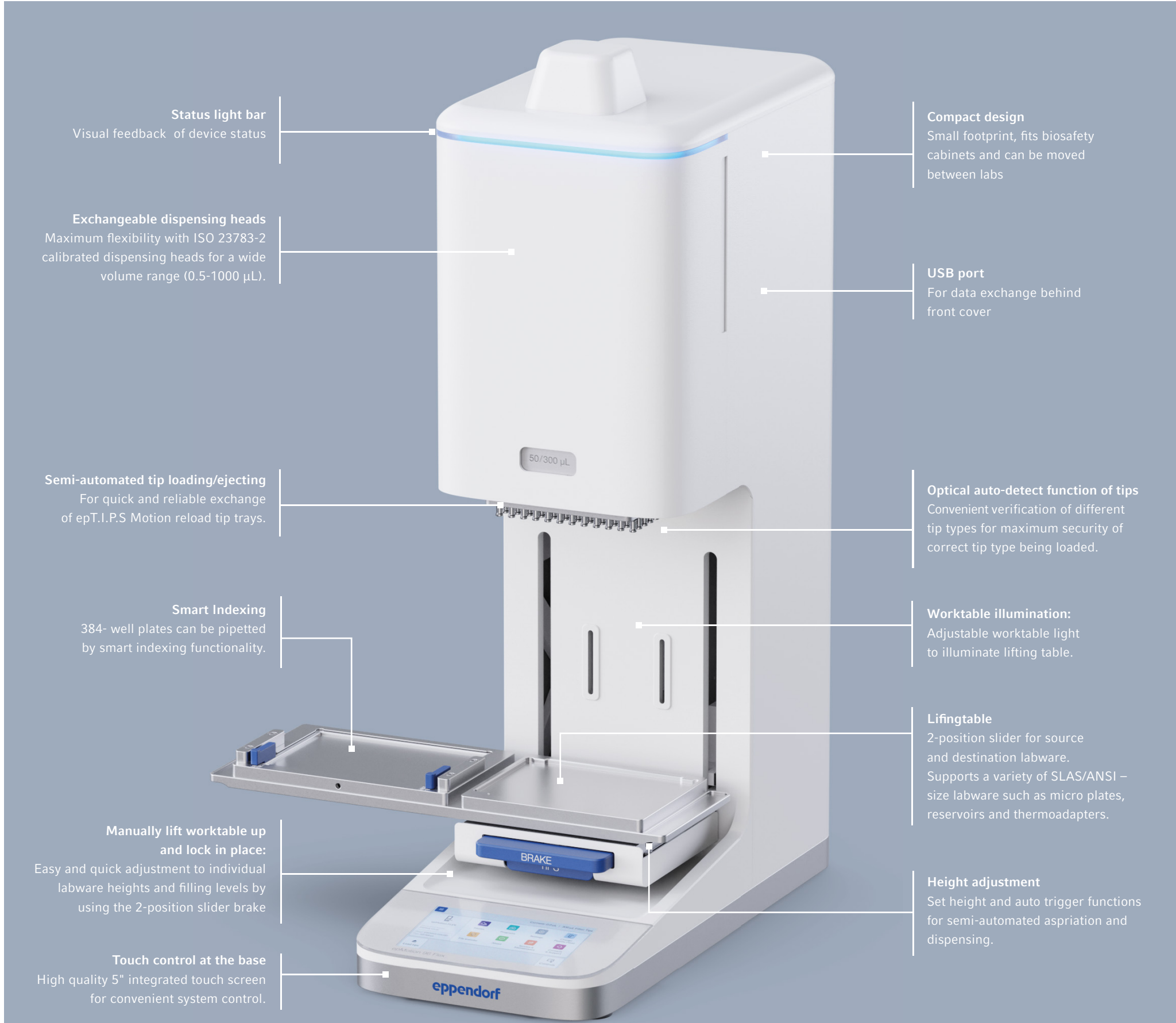
Time is of the essence in the lab, and the epMotion® 96 Flex does not disappoint. It outperforms handheld pipettes, delivering faster plate filling and emptying. Boost your productivity, complete tasks quicker and save time for other experiments.



Our wide selection of 96- and 384-well plates provide a reliable platform for high-throughput applications. Combined with the epMotion® 96 Flex they ensure swift and accurate sample processing, significantly reducing turnaround times and enhancing overall laboratory productivity.







## Your Smart Features

### Easy Operation

- > Set height and auto trigger functions for semi-automated aspiration and dispensing.
- > Intelligent, preset applications: aspiration, dilution, sequential dispense, multi dispensing, small volume, prewetting, and reverse pipetting
- > Set individual parameters for aspiration or dispensing speed to match your current liquid class
- > Intuitive software to use the system with minimal training and without programming skills.
- > Save frequently used volumes for quick programming
- > Possibility to program multi-step pipetting tasks for complex applications
- > Guidance for dispensing head exchange, tip loading, 384-well pipetting etc.
- > Software updatability

### Simultaneous 96-well pipetting

- > Electronic pipetting with parallel piston movement for better precision and reproducibility of results
- > Use tips column-wise (8, 16, 24, etc.) for serial dilutions and similar applications
- > Accuracy  $\leq 4.5\%$  at 5  $\mu\text{L}$
- > Precision  $\leq 2.5\%$  at 5  $\mu\text{L}$

### Versatility

- > Device with exchangeable dispensing heads in volume range 0.5 to 300  $\mu\text{L}$  and 5 to 1000  $\mu\text{L}$
- > Compact new design to fit biosafety cabinets
- > Automatic optical detection of tip size
- > Possibility to use two tip sizes per dispensing head to maximize accuracy and precision

### Ergonomics

- > Industry proven software concept
- > All touch points located at base of device
- > High-quality 5" touch screen
- > Semi-automated tip load and eject
- > Position slider to toggle between source and destination
- > Reduced risk of repetitive strain injury (RSI)



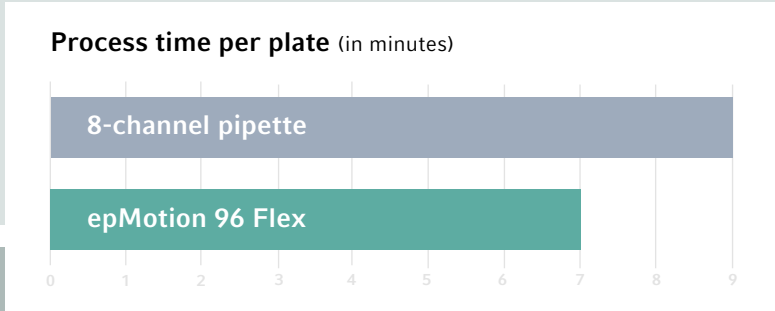
# Elevate Your Cell Biology Workflow

Struggling with numerous plates during your cell biology routines and assays? The epMotion® 96 Flex is your solution! Engineered to seamlessly integrate into biosafety cabinets, with optimized touch points and operations designed to support your cell culture work, it streamlines and simplifies complex tasks. The epMotion® 96 Flex achieves significant time savings, exemplified by cell-based assays that demonstrate an impressive 22% reduction in processing time compared to traditional 8-channel pipettes. Elevate your cell biology applications with the epMotion 96 Flex today!

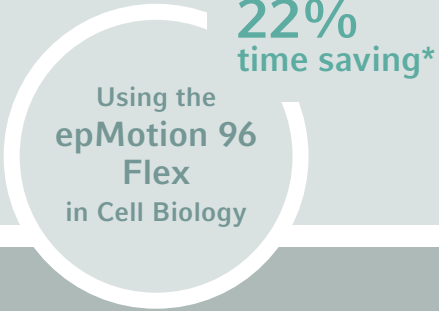


## Exemplary applications cell culture

- > Filling, replicating, reformatting of 96-/ 384-well plates
- > Homogenous cell seeding and media change
- > Cell-based assays
- > Reagent and compound addition
- > Serial dilutions (e.g. for titrations)



Exemplary application: Seeding and measuring cell viability in HeLa cells.



\*Compared to an 8-channel mechanical pipette

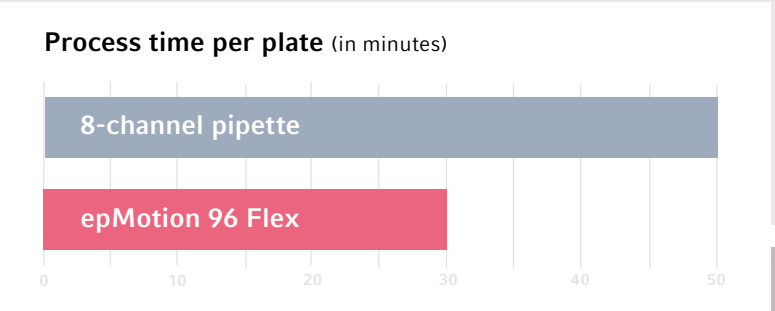
# Quick Results for Your Molecular Biology Application

In molecular biology applications like nucleic acid purification and qPCR setup, where managing plates in various formats is routine, liquid handling can be a daily challenge. Enter epMotion® 96 Flex, your solution to streamline these tasks! Exemplary results reveal around 40% time savings in nucleic acid purification compared to traditional 8-channel pipettes. Elevate your molecular biology workflows with epMotion® 96 Flex.

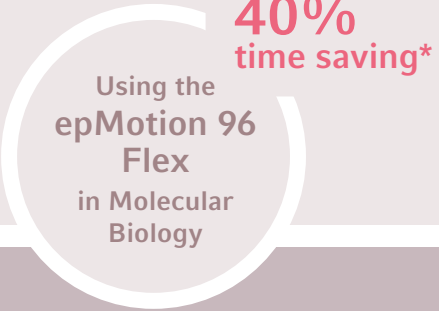


## Exemplary applications molecular biology

- > Filling, replicating, reformatting of 96-/ 384-well plates
- > DNA/RNA purification
- > Magnetic bead-based cleanups (e.g. for NGS library preparation)
- > PCR and qPCR setup
- > Reagent and compound addition
- > Plate coating and washing (e.g. for ELISA)
- > Serial dilutions



Exemplary application: Magnetic-bead-based cleanup of PCR products.



\*Compared to an 8-channel mechanical pipette



# Simplify Your Workflow



- Optional:** Remove tips or add tips from the reload rack (always work with full columns of tips).
- 1. Insert the tips** into the TipHolder for epMotion® 96 Flex
  - 2. Place TipHolder for epMotion 96 Flex** on right position of 2-position slider, select »Load« in epMotion® 96 Flex software and follow further instructions.
  - 3. Select mode, e.g. »Pipette + Mix«,** and adjust plate on lifting table towards the tips
  - 4. Touch »Aspirate«** to take liquid from source plate, change to destination plate and touch »Dispense«
  - 5. Continue Pipetting** or eject tips by pressing »Eject«



## Technical Specifications

epMotion® 96 Flex			
Dimension of device	34.5 cm (13.6 in) in width, 41.5 cm (16.2 in) in depth, 62 cm (24.4 in) in height.		
Weight of device	19.0 kg (43 lb) without dispensing head. 21.1 kg (46.5 lb) to 21.7 kg (47.8 lb) with dispensing heads.		
Compatible plate formats	96- and 384-well microplates, PCR and deepwell (<1.3 in/3.4 cm height)		
Controller*	Integrated 5" capacitive touch full color LCD		
Modes	Pipette, Multidispense, Multiaspirate, Pipette + Mix, Manual Pipette, Dilute + Mix, Reverse Pipetting, Small volume, Programming, set height		
Pipetting technology	96 channel air displacement		
Volume range	50 µL tips	300 µL tips	1000 µL tips
	0.5 to 50 µL	5 to 300 µL	10 to 1000 µL
Performance	Tip size	Systematic measurement error	Random measurement error
dispensing head 50/300 µL	50 µL tips	≤ 4.5% at 5 µL	≤ 2.5% at 5 µL
	300 µL tips	≤ 2.5% at 30 µL	≤ 1.5% at 30 µL
dispensing head 300/1000 µL	300 µL tips	≤ 2.5% at 30 µL	≤ 2.5% at 30 µL
	1000 µL tips	≤ 1.5% at 100 µL	≤ 1.5% 100 µL

## Ordering information

Description	International Ordering no.
<b>epMotion® 96 Flex Base Device</b> with 2-positions slider. base device without dispensing head with TipHolder for epMotion® 96 Flex for use of epT.I.P.S. Motion Reloads, 100 - 240 V, 50 - 60 Hz	5069 000 519
<b>Dispensing Head 96-channel 0.5-300 µL</b> in hard shell case for epMotion 96 Flex	5069 000 527
<b>Dispensing Head 96-channel 5-1000 µL</b> in hard shell case for epMotion 96 Flex	5069 000 535
<b>TipHolder</b> for epMotion 96 Flex for use with epT.I.P.S Motion Reloads	5069 075 004
<b>50 µL, Reloads, Filter, PCR clean and sterile</b> , 12 × 2 trays with 96 tips	0030 014 529
<b>50 µL, Reloads, Filter, PCR clean</b> , 12 × 2 trays with 96 tips	0030 014 430
<b>50 µL, Reloads, Eppendorf Quality™</b> , 12 × 2 trays with 96 tips	0030 014 421
<b>300 µL, Reloads, Filter, PCR clean and sterile</b> , 12 × 2 trays with 96 tips	0030 014 537
<b>300 µL, Reloads, Filter, PCR clean</b> , 12 × 2 trays with 96 tips	0030 014 472
<b>300 µL, Reloads, Eppendorf Quality™</b> , 12 × 2 trays with 96 tips	0030 014 464
<b>1000 µL, Reloads, Filter, PCR clean and sterile</b> , 12 × 2 trays with 96 tips	0030 014 570
<b>1000 µL, Reloads, Filter, PCR clean</b> , 12 × 2 trays with 96 tips	0030 014 510
<b>1000 µL, Reloads, Eppendorf Quality™</b> , 12 × 2 trays with 96 tips	0030 014 502
<b>Low dead volume reservoir 195 mL</b> , single well with 96 cavities, PCR clean, 4 x 5 reservoirs	0030 126 556
<b>TipTool</b>	5285 000 000

Please visit [www.eppendorf.com/epServices](http://www.eppendorf.com/epServices) for available epMotion® 96 Flex performance plans service products.

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