

SELMA 96 | Semi-automated pipetting system

- 96-channel instrument with a minimal footprint
- A fast, precise tool for processing 96 and 384 samples (and/or 96 and 384 well microplates) and individual columns
- Touchscreen for easy, intuitive operation



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Working comfort new defined

Constantly moving your thumbs up and down to pipette solutions is the defining feature of day-to-day lab work – along with arm and joint pain. The SELMA 96 is a semi-automated pipetting system, which processes liquid handling steps fast, precise and with a high reproducibility. Equipped with 96 tips working in parallel, 96 and 384 well microplates can be filled in the twinkling of an eye. Making painful tendonitis a thing of the past. All movements and processes, which are important for high precision as well as for reproducibility, are achieved by reliable motors. This ensures always excellent and constant results.

The automated tip drawing feature avoids the complex process of mounting tips. Prepackaged tips can be used immediately with no time-consuming loading process. A special feature: The manual control of the correct fit of each single tip is not necessary anymore due to the automatic tightening of the tips and the tip sealing technology, that has been proven effective under high throughput conditions. Tips can be changed effortlessly within a few seconds, after which the SELMA 96 is ready for the next application.



■ Single rows (e.g. to produce serial dilutions) can be pipetted easily due to 8 channel magazine

Features

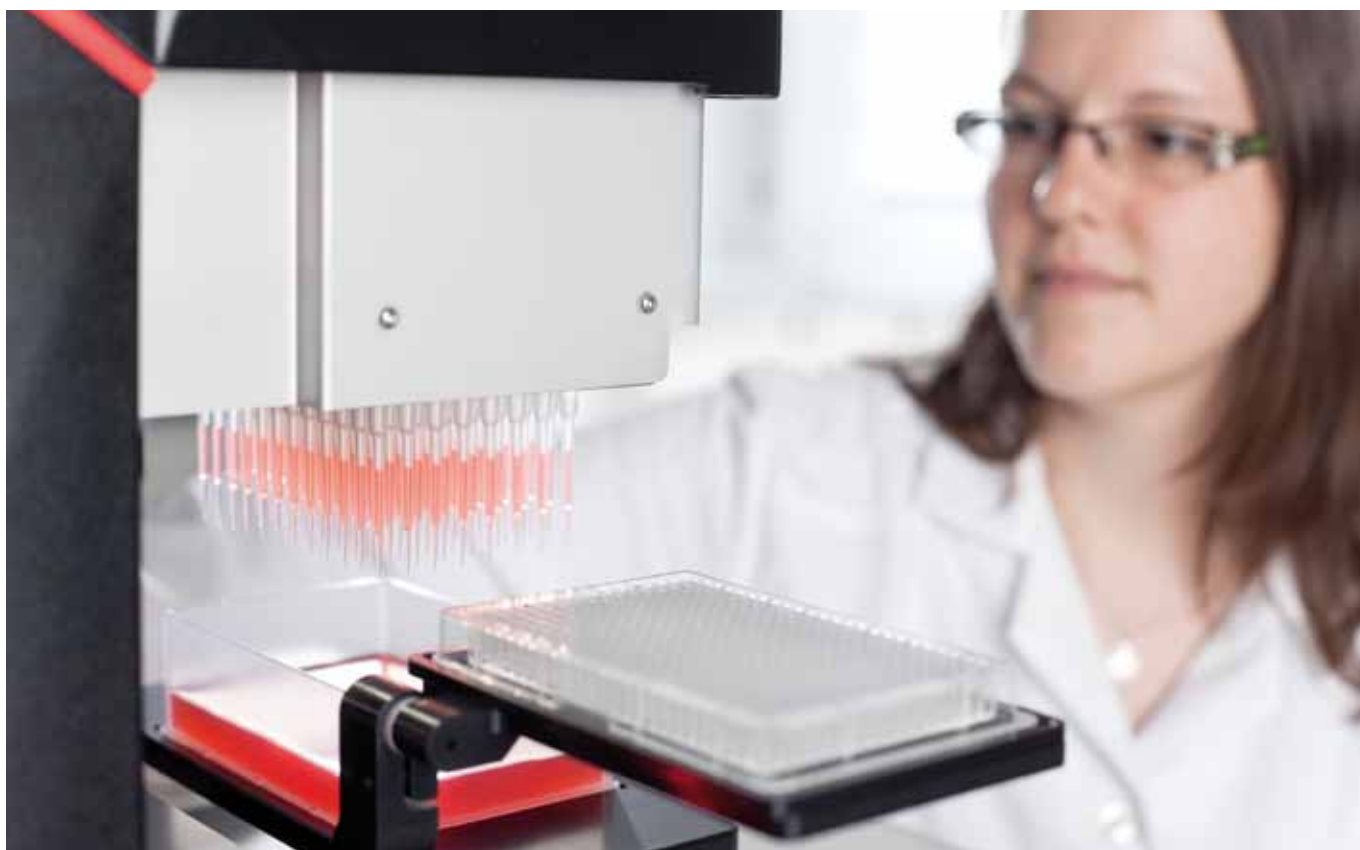
- 96-channel instrument with a minimal footprint
- A fast, precise tool for processing 96 and 384 samples (and/or 96 and 384 well microplates) and individual columns
- For preparing dilution series
- TipTray technology: Proven tip sealing concept makes changing tips easy and secure
- Touchscreen for easy, intuitive operation
- Memory function and automatic parameter use
- External equipment such as mixers, heating and cooling adapters, vacuum chambers, etc. may be used
- Error-free, reproducible results
- Automatic positioning to different heights
- Two working positions for microplates and reservoirs

The SELMA 96 is characterized through very easy handling without the need of a separate controlling by PC. Pipetting, dispensing and a lot of more modes are chooseable by the usage of a modern 3.5" touchscreen. That panel is used for entering desired parameters, as volume and pipetting speed for instance and for the start of the routine afterwards. All manual processing steps, like changing of microplates, are shown on the display. Thus a fast and precise handling of microplates is guaranteed.

For SELMA 96 the usage of different types of microplates is a matter of course. To facilitate the best depth of dipping into the single wells, the pipetting head can be easily positioned in the right way, thanks to a rotary knob. For recurrent processes the chosen settings of pipetting height, volumes and dosing speed can be saved and reloaded at any times. Additionally two easy-to-load positions are available for microplates and reservoirs, eliminating the constant need to move filled plasticware.



■ The multi-position touchscreen of SELMA 96 allows a userfriendly handling while standing or sitting



▲ Small, fast and extremely effective – the 96-channel head of the SELMA 96

Exciting flexibility

The option of using many different accessories – such as reservoirs, trays for various inserts and a variety of TipTrays – allows users to perform an exceptionally wide variety of applications. Cleaning and replacing accessory equipment is easy, which allows operators to go back to work quickly. The open design of the SELMA 96 can be used with existing and/or external equipment, such as heating and cooling adapters, mixers (e.g. BioShake 3000 elm) and thermal mixers (e.g. BioShake 3000-T elm) or vacuum chambers, etc. Special adjustment points allow for correct positioning.



▲ Positioning of the pipetting head and setting the right height – very easy due to the integrated rotary knob.

Reproducible, comparable results every time

The 96 channels of the SELMA 96 allow users to transfer 96 samples safely, with no mistakes and in a single step without confusing samples or forgetting individual wells – problems that used to plague day-to-day work. The high-quality tips and tip sealing concept have been tested under high-throughput conditions over the course of several years and always provide precise, reproducible results. A silicone mat perfectly and uniformly seals tips along the front. The pistons are controlled by a motor to produce extremely homogeneous movements which, in turn, ensure that the results will always be reproducible and precise with no differences in pipetting technique. In addition, two versions of the system are available, each delivering precise results for maximum volumes of 25 μL and 250 μL , respectively. The compact design means that the SELMA 96 can be used in a clean bench, thereby preventing any potential cross-contamination.

In short, this is a pipettor for everyone.

Technical data

Heads	96-channel head (up to 25 µL)	96-channel head (up to 250 µL)
Volume range	0.5–25 µl	5–250 µl
Tips	25 µL SW	<ul style="list-style-type: none">▪ 250 µL SW▪ 250 µL DW
Precision	<ul style="list-style-type: none">▪ 0.5–2 µL ≤ 3%▪ 2–5 µL ≤ 2%▪ 5–25 µL ≤ 1%	<ul style="list-style-type: none">▪ 5–25 µL ≤ 2%▪ 25–250 µL ≤ 1%
Plate formats	Shallow-well and deep-well microplates: 96, 384	
Plate positions	2	
Dimensions (W×H×D)	307×480×325 mm	
Weight	Approx. 15 kg	
Ambient conditions	15°C to 35°C; humidity < 85% at 30°C	

Your contact