

FASTAINER – NEW LINE OF AUTOMATED PROGRAMMABLE SLIDE STAINERS

FAST, COMPACT, VERSATILE, & AFFORDABLE HEMATOLOGY • MICROBIOLOGY • CYTOLOGY • HISTOLOGY

FASTAINERS are modern, reliable, and affordable automated programmable slide stainers. The product line includes three models, varying in the number of staining stations so that every laboratory can choose the one that best suits its needs. The devices have been designed to perform the most prevalent staining techniques for morphological examinations. They can be used in hematology, microbiology, cytology (incl. Pap-test), and histology.

The staining process principle is a sequential programmed movement of racks with slides from station to station where technological operations are carried out. The working chamber is covered with a transparent lid and has compulsory ventilation, ensuring safety in handling toxic reagents.

The slide stainers are equipped with the following types of stations:

- one station with a flow-through trough (tap water);
- one station for drying or heating with warm airflow;
- one station for automated loading and unloading of racks (only for FS-16-25);
- combined stations – either for placement of troughs with liquid reagents or for placement of racks with slides, what makes it possible to create an optimum configuration of a device for each staining technique and even for each laboratory.

The mechanics of our devices are unique in simplicity and reliability. The racks with slides rotate not only in a horizontal plane but also up and down. The rising of a rack from reagent is accompanied by inclining and vibration, facilitating the draining of excess liquid from slides and the rack. Thus, the transfer of reagents between troughs is very low. The manipulator's mechanism is designed in such a way that the rack gets firmly fixed in its grab, making it possible to carry out high-speed movements (during dipping, shaking, transfer from station to station, etc.). Regular troughs and racks are designed for 25 slides capacity. There are also optional small troughs and racks with ten slides capacity.

Control and programming are performed with a color touch-screen display. Programming functions include not only the consequence and duration of technological operations but also their parameters and modes. The technological operation can be performed in a number of ways: immersion into the reagent, immersion with a programmed period agitation, repeated dipping of slides into the reagent (this mode accelerates the speed of procession). There is an option to program the delay of a rack above the trough after removing it from the reagent ('draining time'). Programming the interval for launching new racks into the process makes it possible to configure programs with a parallel procession of several racks. There is a possibility of installing several troughs with the reagent used for a most time-consuming operation. These two options can multiply the performance of the device.

There is an opportunity to prepare and optimize technological programs with special computer software named 'Stainer Firmware Editor' (SFE). It is also possible to rewrite or to upgrade the firmware of devices with the help of SFE.




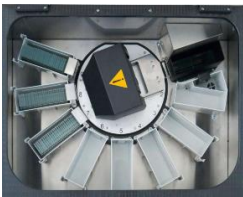
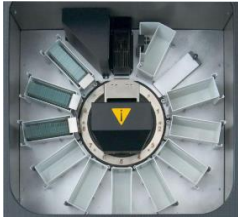

Thus, FASTAINER offers a good deal of opportunities to make staining FAST and reliable and make lab technicians work easy and safe.

WHY IS FASTAINER FAST ?

- Easy & quick installation due to compact size and lightweight
- Ready to work in several seconds after switching on
- User-friendly, easy, and fast programming
- High-speed movements due to firm fixing of the rack in the manipulator
- Acceleration of slides processing due to activation and dipping modes
- Little time for draining, as the racks are inclined on rising with vibration
- Parallel procession of two or three racks



Overview of FASTAINERS technical characteristics

	FS-9-25	FS-12-25	FS-16-25
General view			
Working chamber			
Overall number of stations	9	12	16
Number of combined stations	7	10	13
Number of flow-through stations	1	1	1
Number of heating stations	1	1	1
Number of loading stations	0	0	1
Blotter	-	+	-
Number of slides in a rack	25 (20,10)	25 (20,10)	25 (20,10)
Volume of reagent in a trough, ml	210 (100)	210 (100)	210 (100)
Primary application	Haematology, microbiology, parasitology	Cytological screening (Pap-test) + Haematology, microbiology, parasitology	Histology (H & E, etc.) Cytology (Pap-test) + Haematology, microbiology, parasitology
Control and monitoring	4.3" color TFT display (resistive touch screen)		
Max. number of staining programs	32		
Max. number of program steps	30		
Free choice for each technological program	<ul style="list-style-type: none"> ● Launch interval for processing of racks with slides ("interval"); ● Configuration (arrangement of troughs with reagent and "parking" stations for slide racks); ● Number of troughs with the reagent for the longest procession. 		
Free choice for each step	<ul style="list-style-type: none"> ● reagent; ● station; ● time (0 s – 59 min 59 s); ● activation period (1 - 99 s); ● draining time (0 - 99 sec); ● number of dipping (1 - 99). 		
Performance, slides per hour	up to 175 for Pappenheim (MGG) technique	up to 100 for PAP-test	up to 100 for H & E technique and for PAP-test
Dimensions, mm	460 × 540 × 330	650 × 540 × 330	600 × 540 × 400
Weight, kg	18	22	25
Power supply	230 V / 50 Hz / 400 VA	230 V / 50 Hz / 400 VA	230 V / 50 Hz / 400 VA
Certification	CE, RU	CE, RU	CE, RU

