

FASTAINER – NEW LINE OF AUTOMATED PROGRAMMABLE SLIDE STAINERS

FAST, COMPACT, VERSATILE, & COST EFFICIENT HEMATOLOGY • MICROBIOLOGY • CYTOLOGY • HISTOLOGY

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

The principle of staining process is 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, which ensures 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 air flow;
- 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 is unique in simplicity and reliability. The racks with slides rotate not only in horizontal plane, but also up and down. The rising of a rack from reagent is accompanied with inclining and vibration, which facilitates the draining of excessive 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 a 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.).

Control and programming are performed with a colour touch-screen display. Programming functions include not only the consequence and duration of technological operations, but also their parameters and modes. For instance, a technological operation can be performed in a number of ways: immersion into the reagent, immersion with a programmed period of activation, repeated dipping of slides into the reagent (can accelerate the speed of procession).



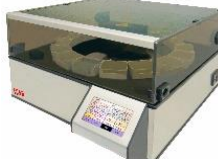





The option to program the duration of delay of a rack above the trough ('draining time') lets excessive reagent flow off. Programming the interval for introduction of new racks into the process makes it possible to configure programs with parallel procession of several racks. To multiply performance there is a possibility to install several troughs with the reagent that is used for a most time-consuming operation.

Thus, FASTAINER offers a good number of opportunities to make the process of staining FAST, and all the characteristics add up to making the whole range of our models versatile and efficient despite their compact size.

WHY IS FASTAINER FAST ?

- Easy & quick installation due to compact size and light weight
- 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 grab
- Acceleration of physical & chemical processes 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-16-12	FS-16-25
General view				
Working chamber				
Overall number of stations	9	12	16	16
Number of combined stations	7	10	14	13
Number of flow-through stations	1	1	1	1
Number of heating stations	1	1	1	1
Number of loading stations	0	0	0	1
Blotter	-	+	-	-
Number of slides in a rack	25	25	12	25
Volume of reagent in a trough, ml	210	210	100	210
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 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). 			
Primary application	Haematology, microbiology, parasitology	Cytological screening (Pap-test) + Haematology, microbiology, parasitology	Histology (H & E, etc.) Cytology (Pap-test) + Haematology, microbiology, parasitology	Histology (H & E, etc.) Cytology (Pap-test) + Haematology, microbiology, parasitology
Performance, slides per hour	up to 175 for Pappenheim (MGG) technique	up to 100 for PAP-test	up to 48 for H & E technique and for PAP-test	up to 100 for H & E technique and for PAP-test
Dimensions, mm	530 × 460 × 330	530 × 580 × 330	460 × 520 × 330	600 × 540 × 400
Weight, kg	18	22	19	25
Power supply	230 V / 50 Hz / 400 VA	230 V / 50 Hz / 400 VA	230 V / 50 Hz / 400 VA	230 V / 50 Hz / 400 VA

