



223 SAMPLE CHANGER

High-Throughput Programmable Sampler for Automated Sample Preparation and Transfer

Options in Flexibility

Choose between a 402 Syringe Pump, MINIPULS Evolution® or MINIPULS® 3 Peristaltic Pump to add aspirating and dispensing flexibility.



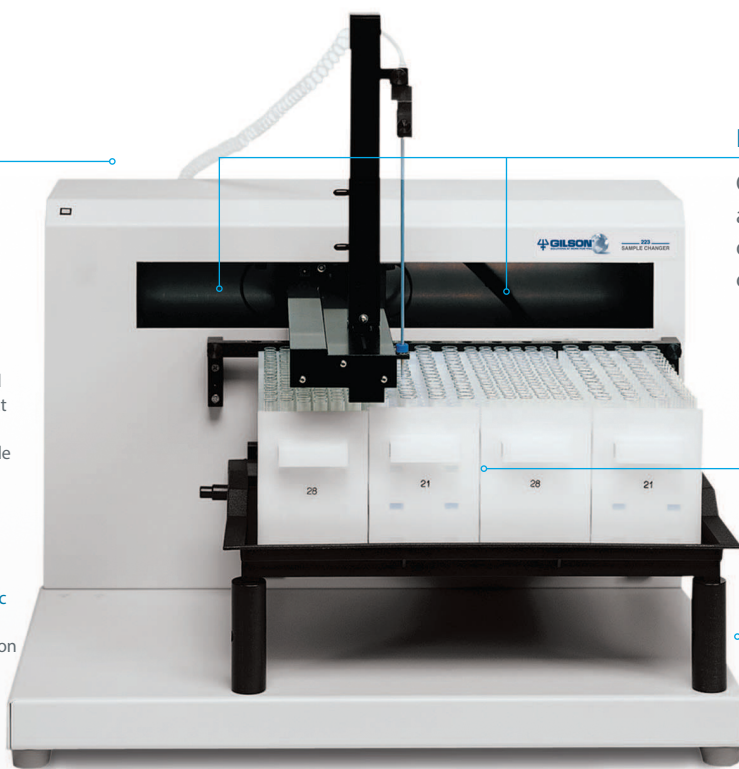
402 Syringe Pump allows systems to deliver both large and small volumes without sacrificing precision. Available in both single and multiple syringe configurations.



MINIPULS® 3 Peristaltic Pump delivers high resolution and precision speed and control for delivering smooth, low pulse flows without sample shearing or degradation.



MINIPULS Evolution® Peristaltic Pump combines microprocessor speed control with a high-torque stepper motor.



Reduce cross-contamination

Optional flow-through rinse station, available on the left and/or right of the support bar, reduces cross-contamination.

Customize setup options

Accommodates a wide variety of probes as well as standard and custom racks.

Applications

Ideal for automated transfer of samples in analytical techniques like FIA and spectroscopy (UV/Vis, AA, ICP).

The perfect solution

The 223 Sample Changer is a programmable sampler for automated sample preparation and transfer. It provides a cost-effective solution for protocols such as serial dilutions, additions, sampling into vials, timed reactions and tube-to-tube transfers.

The 223 Sample Changer is ideal for automated transfer of samples in analytical techniques like FIA and spectroscopy (UV/VIS, AA and ICP).

Cross-contamination is minimized by adjusting rinse volumes and using liquid level sensing.



223 Sample Changer Specifications

Manufacturing Standards	Meets applicable safety and EMC certification standards; UL and CE certified	
Arm Speed	X/Y: 25 cm/sec (9.9 in./sec)	Z: 2.0, 3.0, 6.2, 12.7, 24.7 cm/sec (0.79, 1.18, 2.44, 5.00, 9.72 in./sec)
Communication Interface	RS-232 or GSI0C; Four inputs (contact closure, TTL, or open-collector), four relay outputs and one switched +12V DC (500 mA max.) output	
Liquid Handling	Reproducibility: 0.8% CV at 10 µL	Accuracy: 98.2% at 10 µL
Front Panel	One yellow LED indicator light	
Horizontal Motion Strength	X: 2 kg (5 lbs.)	Y: 1.5 kg (3 lbs.)
Maximum Number of Vials	432 (7 x 40 mm or 10 x 75 mm)	
Number of Racks	Up to four Code 20- or 30-Series racks	
Power Requirements	Frequency: 50–60 Hz Voltage: 90–120 or 220–240V, mains voltage fluctuations not to exceed ±10% of the nominal voltage Current rating: one 2.0A fuse for 100–120V or two 2.0A fuses for 220–240V	
Probe Positioning Performance	Accuracy: ±1 mm in X/Y/Z dimensions	Repeatability: ±0.25 mm in X/Y/Z dimensions
Probe Rinse	Through a dedicated rinse station for rinsing the inside and outside of the probe	
Sampler Type	X/Y/Z with stationary rack design	
Software	Via Gilson TRILUTION™ Software	
Vertical Punch Strength	1 kg (2 lbs.)	
Dimensions (w x d x h*)	53.5 x 43.7 x 60* cm (21.1 x 17.2 x 24* in.)	
Weight	18.6 kg (41 lbs.)	

*Maximum height. Z-arm height is adjustable to accommodate vessel heights between 1 and 150 mm (dependent on installed Z-arm).

For additional specifications and information, go to www.gilson.com

