

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Рязань (4912)46-61-64
Астана (7172)727-132	Красноярск (391)204-63-61	Самара (846)206-03-16
Белгород (4722)40-23-64	Курск (4712)77-13-04	Санкт-Петербург (812)309-46-40
Брянск (4832)59-03-52	Липецк (4742)52-20-81	Саратов (845)249-38-78
Владивосток (423)249-28-31	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Волгоград (844)278-03-48	Москва (495)268-04-70	Сочи (862)225-72-31
Вологда (8172)26-41-59	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Воронеж (473)204-51-73	Набережные Челны (8552)20-53-41	Тверь (4822)63-31-35
Екатеринбург (343)384-55-89	Нижний Новгород (831)429-08-12	Томск (3822)98-41-53
Иваново (4932)77-34-06	Новокузнецк (3843)20-46-81	Тула (4872)74-02-29
Ижевск (3412)26-03-58	Новосибирск (383)227-86-73	Тюмень (3452)66-21-18
Казань (843)206-01-48	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Калининград (4012)72-03-81	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калуга (4842)92-23-67	Пенза (8412)22-31-16	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Пермь (342)205-81-47	Череповец (8202)49-02-64
Киров (8332)68-02-04	Ростов-на-Дону (863)308-18-15	Ярославль (4852)69-52-93

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Система управления образцами SAM Hamilton

SAM™ — Sample Access Manager

Automated Low-Capacity Biobanking

SAM is an automated sample management system for secure storage of tubes and plates. The system is available in +4°C, -20°C, -40°C and -80°C platforms.

This compact, localized storage system requires minimum facilities work as the system easily fits into existing laboratory spaces.

To maintain sample integrity, the automation is driven by our external magnetic couplers to eliminate freeze-thaw cycles and moisture introduction which can occur when a freezer door is opened. Furthermore, the environment is continuously monitored, even during picking, ensuring the samples never reach critical sample temperatures.

For additional sample security, a standard UPS and LN₂ (or CO₂ for the -20°C SAM) backup is provided to help mitigate typical disaster scenarios and ensure samples are kept cold and safe.



Features of the SAM System:

- ▶ **SAMple Picker** allows for a fast and easy way to cherry-pick tubes
- ▶ Retrieves samples in less than 70 seconds
- ▶ Provides sample safety—samples are stored securely in the system and user access rights can be controlled by the software
- ▶ Reads both 2-D barcodes on the bottom and 1-D/2-D barcodes on the side of the tube
- ▶ Remote monitoring and job execution
- ▶ Full alarm capabilities

Storage Capacities:

Tube Type*	Standard Racks	RackWare High-Density Racks
0.2 mL screwcap	60,000	86,250
0.3 mL DuraSeal™/septum/screwcap	45,600	65,500
0.5 mL screwcap	34,080	48,990
1.4 mL septum**	34,080	48,990
1.0 mL/1.4 mL screwcap	28,800	41,400
5.0 mL screwcap***	8,496	n/a
10 mL vacutainers***	3,816	n/a
SBS microplates	803	n/a

*Please contact Hamilton for verification of labware type and system capacities.

**Matrix™ 1.4 mL DuraSeal™ tubes have a capacity of 28,800.

***Cannot be picked if over 87 mm.



New Features Available!

The upgraded SAM system provides users with:

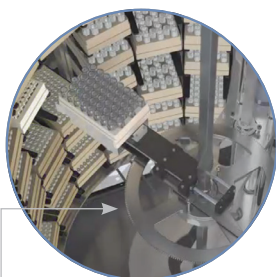
- ▶ Increased storage capacity
- ▶ Ability to store and process multiple labware types
- ▶ A new operating system—Instinct S

SAM is now compatible with our new RackWare high-density racks, which increases the storage capacity while maintaining the same footprint.

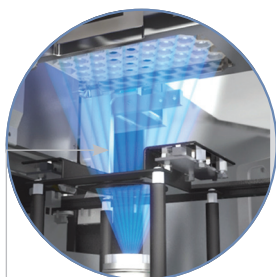
The new operating system, Instinct S, provides a similar User Interface and the same API as Hamilton BiOS and Verso. The software supports 21 CFR Part 11 compliance to meet the rigorous demands for sample security. Additionally, users can be granted different levels of system operation with access restrictions to specific sample sets.

Applications

- ▶ Biobanking
- ▶ Forensics
- ▶ Drug Discovery
- ▶ Life Science Research
- ▶ Pharmacogenomics
- ▶ Genotyping



An internal carousel provides optimized and flexible storage capacities.



2-D barcode scanning for full sample tracking.



Our patented external magnetic couplers drive the internal robotics.

Technical Specifications:

Dimensions	1270.0 mm (w) x 2210.0 mm (h) x 1346.0 mm (d) 50.0 in (w) x 87.0 in (h) x 53.0 in (d)
Weight (empty)	704 kg (1,550 lbs)
Max. Labware Weight	0.64 kg (1.4 lbs)
Voltage	208-240 VAC, 15 A service, 50 Hz/60 Hz
Operating Environment	10-30°C, relative humidity 0-80% with no condensation Altitude <2,000 m
Sample Temperature	+20°C to -40°C / -55°C to -80°C
Sample Atmosphere	Nitrogen or dry air (-40°C dew point or lower)
Operating System	Windows® 7
Barcode Reader	1-D for racks and 2-D for tubes

SAMple Picker/Puncher Retrieval Rates Per Hour:

Tubes per Rack	48-Rack Cryovial (1-D)	48-Rack Cryovial (2-D)	96-Rack Cryovial (2-D)	96-Rack REMP (2-D)
1 tube	31	30	32	38
5 tubes	85	105	115	166
10 tubes	103	135	136	267
20 tubes	120	136	148	472

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