

HAMILTON

SAM HD

Automated Sample Storage System



SAM HD

Reliable, walkaway solution for labs seeking automated storage

SAM HD is a compact storage system that safely and securely stores precious samples in a -80°C frost-free environment. Don't let its small footprint fool you—the SAM HD platform is a powerful, fully automated all-in-one biobank running at pick speeds of up to 100 tubes per hour while supporting multiple labware types.

Convenience at Your Fingertips

SAM HD effortlessly transports samples from cold storage to the access port in less than 70 seconds.

- The system uses INSTINCT® S—a powerful, easy-to-use software platform that drives Hamilton Storage's Verso Q-Series, Verso, and BiOS systems.
- Jobs can run without supervision. Simply input your pick list and move on to the next task, or run a job after hours to maximize productivity during the day.

Environmentally Conscious

Hamilton Storage strives to create a greener, cleaner world every day.

- SAM HD utilizes a natural refrigerant to help reduce your lab's carbon footprint.

It's Not Magic... It's RackWare®

Increase storage capacity in the same footprint simply by using our RackWare high-density storage racks (HDR).

- HDR-060 supports popular 48-format labware and increases storage by 25%.
- HDR-138 supports most major 96-format labware and increases storage by 43%.

Efficiency Meets Security

Enjoy peace of mind knowing that your samples are safe within SAM HD's continuously monitored environment.

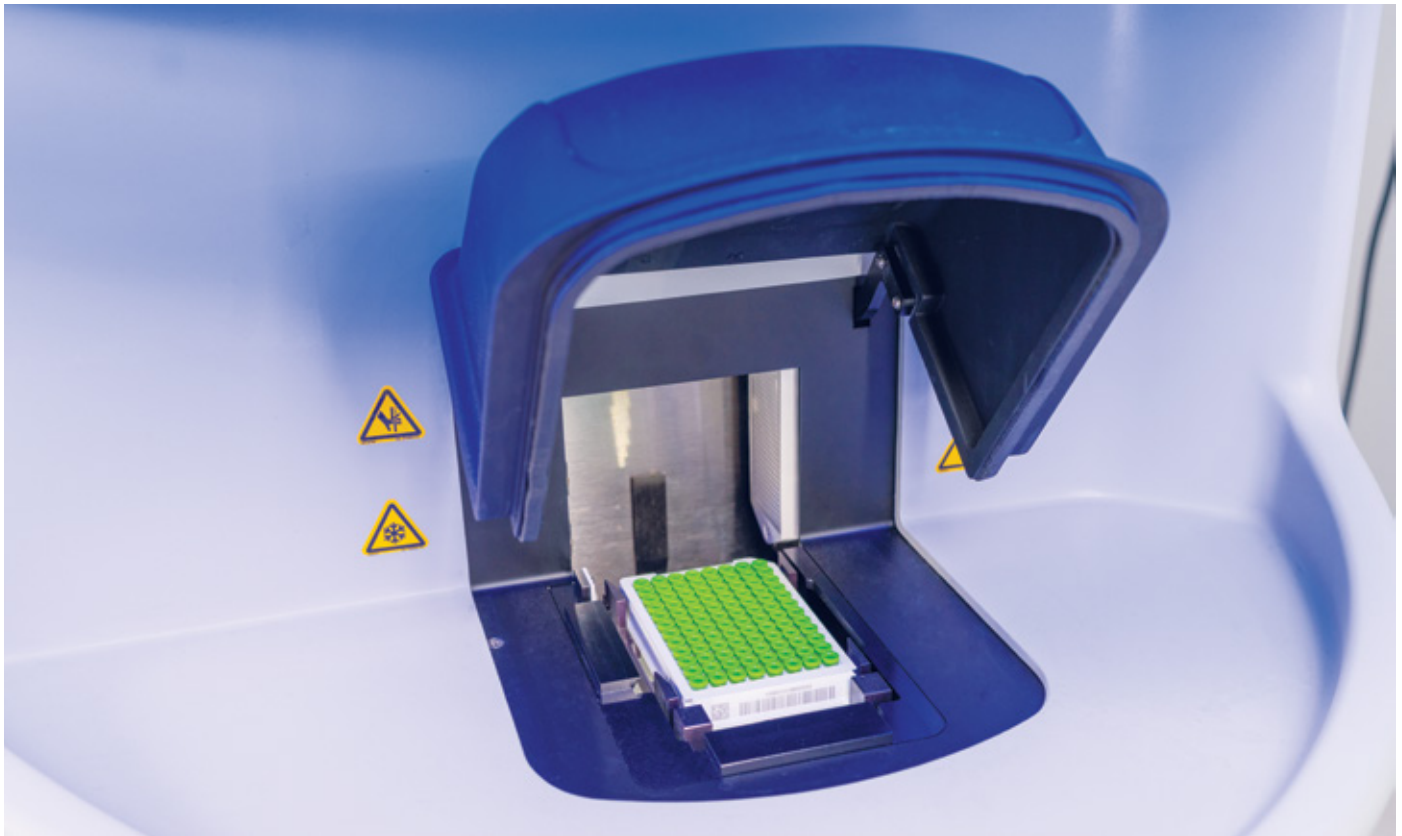
- A complete chain of custody for each sample is available—the system automatically tracks and records the movement of all samples.
- Heat and moisture are prevented from entering the system, thus eliminating harmful freeze-thaw cycles.
- UPS and LN₂ backup capability helps mitigate common disaster scenarios.

Flexibility Enhances Function

Easily adapt to changing workflows by storing and managing multiple tube types within one system.

- Different labware types can be picked without the hassle of tooling changes, and without compromising the integrity of unpicked samples.





Storage Temperature:
-80°C



Capacity:
Up to 85,836 tubes



Throughput:
Up to 100 tubes/hour

Storage Capacities

Labware Type*	Standard Rack	RackWare High-Density Rack
0.3 mL DuraSeal™/septum/screw cap	59,712	85,836
0.5 mL screw cap	34,080	48,990
1.0 mL/1.4 mL screw cap	28,800	41,400
5 mL screw cap	8,496	n/a
10 mL screw cap	4,272	n/a
SBS microplate	803	n/a

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

Technical Specifications

System Width	139 cm (4 ft, 7 in)	Barcode Reading	Racks: 1D Tubes: 1D and 2D (side) and 2D (bottom)
System Depth	150 cm (4 ft, 11 in)	Dry Air Purge	Nitrogen or dry air (-40°C dew point or lower)
System Height	222 cm (7 ft, 3.5 in)	Tube Retrieval	100 tubes/hour at 5% hit rate
System Weight (empty)	861 kg (1,900 lbs)	Plate Retrieval	50 plates/hour



● Headquarters / Manufacturing



Years of Experience
75+



Locations Worldwide
22+



Employees Internationally
3,000+

To find a representative in
your area, please visit:
www.hamiltoncompany.com/contacts

Web: www.hamiltoncompany.com
USA: 800-648-5950
Europe: +41-58-610-10-10

Hamilton Americas & Pacific Rim
Hamilton Company Inc.
4970 Energy Way
Reno, Nevada 89502 USA
Tel: +1-775-858-3000
Fax: +1-775-856-7259
sales@hamiltoncompany.com

Hamilton Europe, Asia & Africa
Hamilton Bonaduz A.G.
Via Crusch 8
CH-7402 Bonaduz, Switzerland
Tel: +41-58-610-10-10
contact.pa.ch@hamilton.ch