

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

Единый адрес: hno@nt-rt.ru **Веб-сайт:** www.hamilton.nt-rt.ru

Система управления образцами ASM Hamilton

ASM™ — Active Sample Manager

High-Throughput Sample Management

The ASM is our automated sample management system for high-throughput storage of tubes, vials and plates with a temperature range down to -20°C. One storage module can store up to 207,360 tubes or 2,160 plates, accommodating all the popular tube sizes, from 0.2 mL to 1 dram vials. Its modular design allows the capacity of the system to be conveniently expanded by combining multiple ASM Store modules.

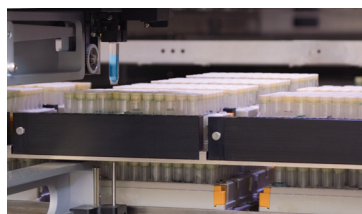
Benefits of the ASM System:

- ▶ Modular expandability
- ▶ Enhanced alarm notification
- ▶ System monitoring for process safety
- ▶ Standard thaw stations
- ▶ Easy installation
- ▶ Seamless integration with Microlab® STAR Line workstations and third-party instruments



Quick Processing Speeds!

Up to 120 tube racks and plates can be delivered out of storage per hour. The high-speed picking and return rates of 300 to 1,000 tubes per hour are unparalleled thanks to the adaptive process technology (APT).



Storage Capacities:

Tube Type*	Capacity**	Throughput***
0.2 mL/0.3 mL screwcap	207,360	300-1,000 per hour
0.5 mL septum	207,360	300-1,000 per hour
0.5 mL/1.4 mL screwcap	99,840	300-1,000 per hour
0.7 mL/1.4 mL septum		
1 dram vials	24,960	300-1,000 per hour
SBS microplates	2,160	120 per hour

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

**Capacity per Store module. Contact Hamilton for multiple Store capacities.

***Throughput figures are based on rack distributions of >4%.



Intelligent Design

Unlike the competition, our ASM system's picking speeds increase when additional Store modules are added to the system. Our design includes multiple pickers with simultaneous picking, instead of one single picker that becomes overburdened. Each additional Store module has its own gantry for rack selection, picker for tube selection and smart cache for look-ahead picking.

Because the Hamilton system is modular, the components can fit into standard elevators and through laboratory doorways. Minimal facilities work is typically required to accommodate the ASM system. The system is delivered as a finished product, which means installation and system commissioning is planned to be completed within a week.

Applications

- ▶ Compound Management
- ▶ Drug Discovery
- ▶ Genomics
- ▶ Proteomics
- ▶ Oligos



Integrated hand-off arm for delivery to a Microlab STAR workstation and/or other third-party equipment.



Integrated thaw of 40 racks simultaneously.



1-D and 2-D barcode reading.

Technical Specifications:

Module	Specification
ASM Store Dimensions	1041.0 mm (w) x 2559.0 mm (h) x 2146.0 mm (d) 41.0 in (w) x 100.7 in (h) x 84.5 in (d)
ASM Server Dimensions	787.4 mm (w) x 1981.2 mm (h) x 1295.0 mm (d) 31.0 in (w) x 78.0 in (h) x 50.9 in (d)
ASM Store Weight (empty)	1361 kg (3,000 lbs)
ASM Server Weight (empty)	431 kg (950 lbs)
Voltage	220 VAC $\pm$ 10%, 20 A service, 50 Hz/60 Hz
Operating Environment	10-30°C, relative humidity 5-80% with no condensation (Altitude <2,000 m)
ASM Store Sample Temperature	Ambient to -20°C
ASM Store Sample Atmosphere	Nitrogen or dry air (-40°C dew point or lower)
ASM Server Active Thaw	User selectable thaw temperature from ambient to 37°C
ASM Server Storage Capacities	40 rack positions for active thawing, input and output
Operating System	Windows® 7
Barcode Reader	1-D for plates and 2-D for tubes

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