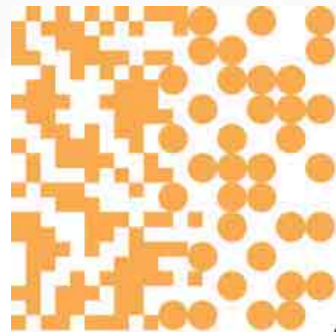


Innovations in Sample Storage



MICRONIC

Traceable Sampling Solutions



Innovations in... **Sample Storage**

Many laboratories around the world are today faced with the need to store samples over long periods of time without loss of sample integrity and to give these samples a unique identity that provides the complete traceability dictated by stringent regulations such as exist in the pharmaceutical, clinical, food and agricultural industries.

Dedicated to the design and production of innovative sample storage tubes and accessories for over 25 years, the knowledgeable staff at Micronic are uniquely able to offer the expert advice to guide your laboratory towards safeguarding one of its most valuable assets – the samples it produces.

In providing high quality, traceable sample storage solutions Micronic, has from its inception, been an innovator. Notable developments have included the first 1.4ml bottom coded tube, the first absolutely unique tube coding system, the first multi-piercable capmat and the first 96-tube code reader. Around the world the Micronic 1.4 ml plastic tube has earned its reputation as a ‘standard’ for providing secure sample storage.

With all products manufactured in class 7 (clean room 10,000) facilities, high product quality and consistency is a company

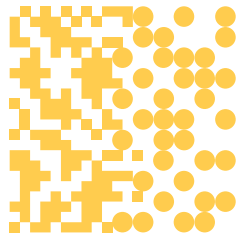
philosophy. Regular investors in quality Micronic are certified for ISO 9001 and ISO 14001, can offer fully validated RNase & DNase free HACCP (Hazard Analysis and Critical Control Point) system.

Our state of the art manufacturing facility is totally automated allowing production 24 hours a day ensuring that our dedicated global distribution network can fully meet the expectations of even high volume users.

The key to providing a fully auditable sample trail is total confidence in the code itself. Without full knowledge of the sample identifier no system can be trusted to produce the right data. In light of this Micronic has heavily invested in systems to prevent incorrect coding or misplacement during production and packaging.

Our 2007 product range catalogue introduces the comprehensive range of tubes and accessories that enables Micronic to provide you with a total solution for all your sample storage needs.

Further information on Micronic, its products and services can be found by visiting our regularly updated website at www.micronic.com.



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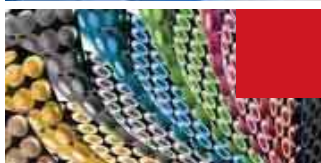
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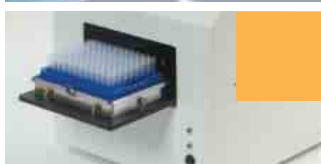
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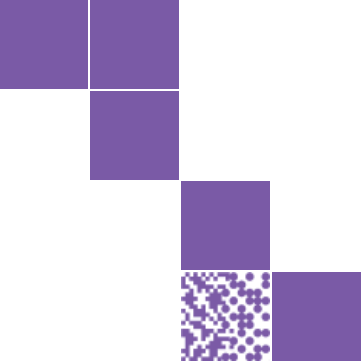
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A comprehensive range of **Sample Storage Tubes**



Non Coded, Alphanumerical, Tracker 2D, TraXis 2D coded.

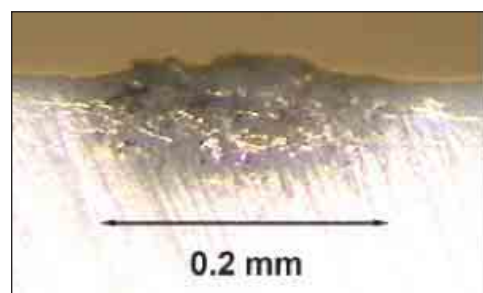
Micronic offers a comprehensive range of non-coded, alphanumeric and two 2D bar coded tube ranges in a range of materials, sizes, bottom profiles and a choice of sealing arrangements to cater for all sample types and sample storage requirements. The standard product range includes 0.5 ml, 0.65 ml, 1.1ml and 1.4 ml tube volumes. The 0.65 ml and 1.4 ml tubes are available in all coding formats. The 0.5 ml and 1.1 ml tubes are offered with special screw top closure enabling secure sample storage even at cryogenic temperatures. Manufactured to industry leading strict tolerances the precision and tube-to-tube consistency of Micronic products maximises operational uptime when used with automated cherry picking and handling systems.



Choice of sample volumes.



'U' and 'V' bottom



Cross section of the laser encoded Micronic 2D bar code (1 single dot).

Feature / Benefits

Choice of tube volumes – an optimised solution for all standard sample storage applications.

Automation compatible – precision manufactured with high tube to tube consistency.

Sample safe – produced from FDA approved high purity polypropylene that is free of additives and offers high solvent resistance.

Optimal use of freezer space – designed to fit 96 individual tubes into a standard rack creating 35-50% space savings.

Ordering Information

TUBES

0.65ml Non coded tubes U-bottom

M32016	0.65ml Non coded tubes U-bottom Bulk
M42011	0.65ml Alphanum Black printed tubes U-bottom in LoboRack-96
M52304	0.65ml Tracker tubes U-bottom Bulk
M52604	0.65ml TraXis tubes U-bottom Bulk

1.4ml Non coded tubes U-bottom

M32022	1.4ml Non coded tubes U-bottom Bulk
M22501	1.4ml Alphanum Black printed tubes U-bottom in ComoRack-96
M42028	1.4ml Alphanum White printed tubes U-bottom in ComoRack-96
M52607	1.4ml Tracker tubes U-bottom Bulk
M52307	1.4ml TraXis tubes U-bottom Bulk

For further information visit www.micronic.com

Sample Storage Tubes

Why 2D Coding?



Tracker Data Matrix



TraXis 2D

Identifying your sample via a code on the tube can be done in a number of ways. The most reliable in terms of long-term identification and tracking of samples is via a 2D coding on the bottom of the tubes. Micronic is the only manufacturer to laser encrypt the solid propylene code area guaranteeing the highest resistance to solvent attack. As the code is totally integrated it will not fade or peel off even when subjected to repeated handling and freeze-thaw cycles. The code clarity will remain unchanged throughout the lifespan of the tube.

Micronic is the only manufacturer to offer a choice of 2D coded tubes. To ensure total quality, 100% of all Micronic 2D coded tubes are read before leaving the factory.



Storing biological samples at low temperatures...



Screw Top Cryotube

Micronic screw top tubes, available in 0.5 ml and 1.1 ml sizes, provide laboratories with high integrity storage and easy retrieval of precious samples down to liquid nitrogen temperatures. Incorporating a novel 'single turn' screw cap mechanism ensures that accessing and securing samples is a simple and rapid process. With a unique 2D code on the bottom of each tube the screw top range provides an easy and unambiguous means of storing and identifying samples. The internal V-shape of each screw top tube ensures the lowest possible dead volume and maximum sample recovery. Designed to fit 96 individual tubes into a standard Micronic Lobo rack optimises use of valuable freezer storage space. Available in a choice of 6 different colour screw caps the 0.5 and 1.1 ml screw top tube range allows quick visual determination of sample origin.

How to save valuable freezer storage space

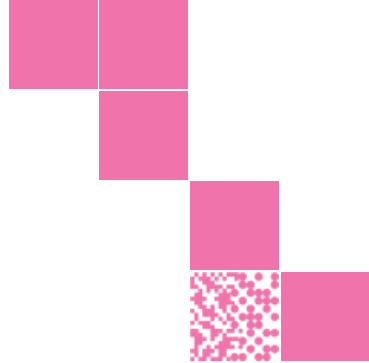
When considering a traceable laboratory sample storage system scientists often evaluate how different products compare in terms of likely errors in usage, operational flexibility and seamless integration with automation and LIMS systems. Micronic standard coded tubes perform well in all these aspects. With compound libraries growing by the day one of the biggest costs associated with storing samples is economical use of freezer space. **See below how Micronic standard tubes can deliver a saving of up to 78% of your current freezer space!**

Storage medium	No of tubes fitting in 500-litre freezer
Standard 9x9 box	32076
1.4ml tube holder	57024
0.65ml tube holder	82944

Ordering Information

M52325	0.5ml Tracker Screw-top tubes V-bottom, without cap, in Lobarack-96
M52617	0.5ml TraXis Screw-top tubes V-bottom, without cap, in Lobarack-96
M52318	1.1ml Tracker Screw-top tubes V-bottom, without cap, in Bulk
M52318	1.1ml TraXis Screw-top tubes V-bottom, without cap, in Bulk

**For further information visit
www.micronic.com**



A complete sample storage solution... **Starter packs**



The popular Micronic Starter Pack range were introduced for laboratories looking for a complete single source solution for their traceable sample storage requirements.

You do not need to store large numbers of samples to benefit from a 2D coded tube system. Each Micronic Starter Pack contains everything needed to start using 2D coded (or non-coded) sample storage tubes enabling laboratories to ensure a secure sample logistics system and eliminate the costly possibility of false sample identities.

Each attractively priced pack contains a case of racked tubes, the unique Capcluster multi-piercable tube cap and a versatile plate sealing device that will seal rack and cap combinations. To provide a total sample storage and retrieval solution an easy-to-use 2D scanner is available that allows reading of 96 coded tubes within 15 seconds.

Includes:

- 0.5, 0.65, 1.1 or 1.4 ml Non coded tubes.
- TraXis or Tracker Data Matrix 2D coded tubes.
- A 2D Code Reader.
- 2D Code reading software.
- Safesealer.
- Capclusters / Capmats / Screw Caps.

Besides the standard Starter Pack range, Micronic offer custom specified Starter Packs.

Ordering Information

M50002	TraXis 0.65ml U-bottom Starterpack
M50102	Tracker 0.65ml U-bottom Starterpack
M50105	TraXis 1.1ml Screw to tube Starterpack
M50104	Tracker 1.1ml Screw to tube Starterpack
M50000	TraXis 1.4ml U-bottom Starterpack
M50100	Tracker 1.4ml U-bottom Starterpack

For further information visit www.micronic.com

Do your samples have... **Special Requirements?**

In addition to having established a worldwide reputation for the supply of the highest quality standard storage tubes – Micronic has developed a range of specialist tubes for samples that are light sensitive, biologically active or simply require a larger storage capacity. Our long experience and expertise in the field of sample storage means that for most specialist applications - Micronic can help.

Are they light sensitive?

Sometimes it is difficult to know if your samples will be sensitive to light, especially during long-term storage. Why take a risk with your precious samples?

To cater for light sensitive samples Micronic has developed a range of black sample storage tubes.

- Standard sizes (0.65ml, 1.4ml and 7.5ml)
- Available non-coded or with a 2D code.



Black tubes for storing light sensitive samples.

Ordering Information

Black tubes

M32027	0.65ml Non Coded or Alphanumerical printed tubes (black)
M52310	0.65ml TraXis or Tracker tubes (black)
M42046	1.4ml Non Coded or Alphanumerical printed tubes (black)
M52309	1.4ml TraXis or Tracker tubes (black)
M32030	7.5ml Non Coded tubes (black)
M52314	7.5ml Tracker tubes (black)

For further information visit www.micronic.com

Do they need to be stored in glass?

With some classes of samples, such as biologically active materials, it is better to store in glass rather than polypropylene to ensure long-term sample integrity. Micronic has developed a popular range of borosilicate glass 96-well sample storage tubes.

- Standard size (1.2ml).
- Highly chemically resistant tube caps.
- Available non coded or with a Tracker DM 2D barcode.

Do you need a special size?

For samples larger than 1ml, such as may be found in agrochemical, food and clinical laboratories, Micronic has developed a range of compact Macro tube products. Produced from pure medical grade polypropylene and polyethylene – Micronic's standard 2.5ml and 7.5ml macro tubes ensure the integrity of larger samples.

- Available prefilled in an automation friendly rack.
- Ultra-low working temperature and high chemical resistance.
- Special lid to ensure sample integrity.

Ordering Information

2.5ml Non coded tubes U-bottom

M32032	2.5ml Non coded tubes U-bottom Bulk
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7.5ml Non coded tubes Flat bottom

M23805	7.5ml Non coded PE tubes Flat bottom Bulk
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M23826	7.5ml Non coded PP tubes Flat bottom Bulk
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Glass tubes

M32900	1.2ml Non coded Glass tubes
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M52900	1.2ml Tracker DM Glass tubes
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For further information visit www.micronic.com

Special Requirements



Glass tubes in a Robo Rack.



Macro tubes: straight 2.5ml.



Macro tubes: square 7.5ml.

Automation Compatible... Storage Racks

As the number of samples to be stored has grown so the need for automation compatible storage solutions has become increasingly important. Working with leading automation companies Micronic has developed an elegant range of tube racks based upon the globally recognised Society of Biomolecular Screening (SBS) standard footprint. Accommodating 96 individual tubes in the industry standard 96-well configuration Micronic racks are fully compatible with all commercial automated sample handling and storage systems enabling significant gains in productivity to be routinely achieved.




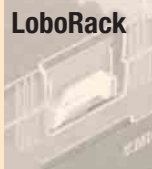
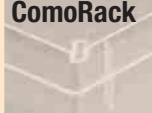

RoboRack



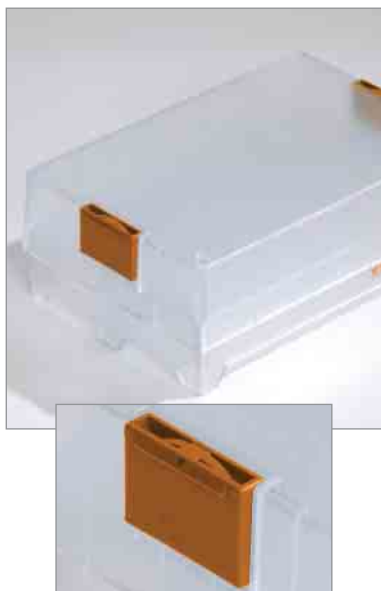
Sure-Shot contoured well top increases productivity through easier tube lead-in.

RoboRack novel airflow design enables rapid freeze-thaw cycles.

Which Storage Rack is for you?

Rack name	Key feature / benefits	Target Applications
RoboRack 	Sure-Shot contoured well top – positive tube lead in Automation friendly – increased productivity Novel airflow design – rapid freeze / thaw cycles Lockable lid – ensures sample integrity	Automated Sample Storage Laboratory Logistics
RoboRack Conductive	As RoboRack Carbon filled polypropylene – conductive and chemically resistant	Auto Liquid Level Detection
LoboRack 	Special low profile – optimal use of freezer storage space Sure-Shot contoured well top – positive tube lead in Twist lock – for automated opening/closure of screw caps Lockable lid – ensures sample integrity	Automated Sample Storage Laboratory Logistics
LoboRack Conductive	As LoboRack Carbon filled polypropylene – conductive and chemically resistant	Auto Liquid Level Detection
ComoRack 	Durable polycarbonate – autoclaved clean up to 100 times Open bottom design – quick defrosting Special lid – easy open, yet lockable for sample security	Sample Storage Harsh Environment Laboratory Logistics
StaboRack 	Competitively priced – economic choice Polypropylene – high chemical resistance Lockable lid – increased sample security	Sample Storage Laboratory Logistics

Storage Racks



New retrofit lid (for all racks)
Lockable to ensure sample security, yet easy to open.



Twist lock easy automated opening/closure of screw cap.



Extendable storage holders

Plastic construction provides quick and easy user-safe access at low temperatures.

Improve your Automated Liquid Level sensing

As the number of samples to be stored has grown so the need for automation compatible storage solutions has become increasingly



important. In more and more automated systems Liquid Level Detection is becoming a required standard procedure. Currently most commercial sample storage racks are not suitable for this application. Manufactured from chemically resistant polypropylene, with a high carbon content, the innovative Micronic conductive 0.65 ml. Lobo and 1.4 ml Robo Racks provide a uniquely stable tube storage platform for automated liquid level detection applications. The new conductive racks minimise electrostatic charge build-up during automated handling in dry environments such as clean rooms and low temperature storage facilities. Potential sample contamination from attracted dust is therefore eliminated. Using Micronic's Conductive RoboRack and Lobo Racks a four-fold improvement in liquid level detection precision, compared to a standard tube storage rack, is possible. Contact Micronic for a detailed report.

Ordering Information

Empty racks with cover

M51004	Lobo Rack-96	Low profile rack for 0.65ml tubes.
M51000	Stabo Rack-96	Mainly manual usage, has feet for better air flow.
M51001	Robo Rack -96	Automation friendly, Sure Shot design.
M23100	Como Rack-24	Polycarbonate rack, 96 and 24 well formats, over 100 times autoclavable, lockable lid.
M22504	Como Rack-96	

Accessories

M34000	Extendable Storage holder (ES-holder)
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For further information visit www.micronic.com



Ensuring sample integrity... **Tube Capping Range**

Micronic offers a comprehensive range of capping solutions to ensure the integrity of your valuable stored samples. Capping products are available in a range of different sample tube sizes, formats (to cap 1, 8, 12 or 96 tubes) and polymeric materials to meet almost any storage requirement. Each TPE capping product is multi-piercable reducing the chances of sample cross contamination. As an option split septum caps are available to reduce the piercing force required by needles and pipette tips.



Screw Caps

- Ideal for high integrity biological sample storage down to -196°C .
- Easy one-turn opening and closure.
- Choice of six colours.



Easy one-turn opening and closure.

Thermo Plastic Elastomer (TPE) Caps

- Provides an excellent barrier for a wide range of solvents.
- Very high chemical resistance.
- High integrity seal down to -80°C .
- Choice of ten colours.



After capping, simply remove the foil backing.

Ethyl Vinyl Acetate (EVA) Caps




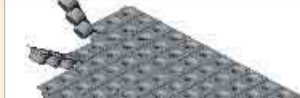




- Compliant with US and European food safety regulations.



An economic capping system.

Tube Capping Range

Capping solutions include:

Screw Caps	Ideal for high integrity storage of biological samples at low and ultra-low temperatures. Easy to open and close.	
TPE Capmat	A permanent retaining film that holds 96 fixed caps for sealing a group of 96 tubes at a time.	
TPE Capcluster	Seals 96 tubes as easily as applying a Capmat, simply remove the retaining film to leave each tube individually capped.	
TPE Capband 8 and 12	A retaining film holding 96 fixed caps with a tear off line to obtain a strip of 8 or 12 caps.	
TPE Split Cap	Available in Capcluster and Capbands, these caps are pre-split allowing the cap to be easily pierced with a pipette tip.	
EVA Capband-8	A strip of 8 EVA caps, for capping 8 tubes or wells in a deep well plate.	
EVA Breakoff Capband-8	A strip of 8 EVA caps that permits individual caps to be removed from the strip.	
EVA Capmat	96 EVA caps in a capmat format to seal 96 tubes or wells at a time.	

Ordering Information

Screw Caps (Available in 6 colours)

M5310# Screwcaps #1 White, #2 Red, #3 Blue, #4 Yellow, #5 Green, #6 Transparent Blue

TPE Capping Range (Available in 10 colours)

M53000 Piercable TPE Capmat Natural for capping 96 tubes

M53002 Piercable TPE Capband-8 Natural in Capmat format

M53035 Piercable TPE Capband-12 in Capmat format

M53001 Piercable TPE Capcluster Natural for capping 96 individual tubes

M53026 Split TPE Capcluster Natural for capping 96 individual tubes

EVA Capping Range

M82605 EVA Capband break-off for capping 1 tube

M227C2 EVA Capband for capping 8 tubes

M33000 EVA Capmat for capping 96 tubes

For further information visit www.micronic.com



Ensuring your sample traceability...

Readers & Scanners

To provide rapid and reliable identification of 2D bar coded tubes - Micronic offers a unique range of high performance tube readers and scanners. Designed to simply interface with your sample storage system, Micronic tube readers and scanners deliver industry leading operational precision, high-throughput and long-term reliability. Each Micronic tube reader and scanner comes with specially developed software facilitating intuitive and precise tube code reading and seamless integration into any laboratory sample database.



Multi Tube Scanners

The Micronic Multi Tube Scanner is the ideal solution for manually reading racks of 2D bar coded tubes. The Multi Tube Scanner is an easy-to-use and reliable bench-top system that delivers high quality for a low investment. The Multi Tube Scanner is available configured to read single racks or as a rapid four rack scanner. The versatile software will generate a variety of file formats allowing simple interfacing with most databases.

- Reads 96 tubes in less than 10 seconds.
- Simple installation via a USB connection to your PC.
- User friendly and highly reliable.
- Versatile intuitive software for data export.

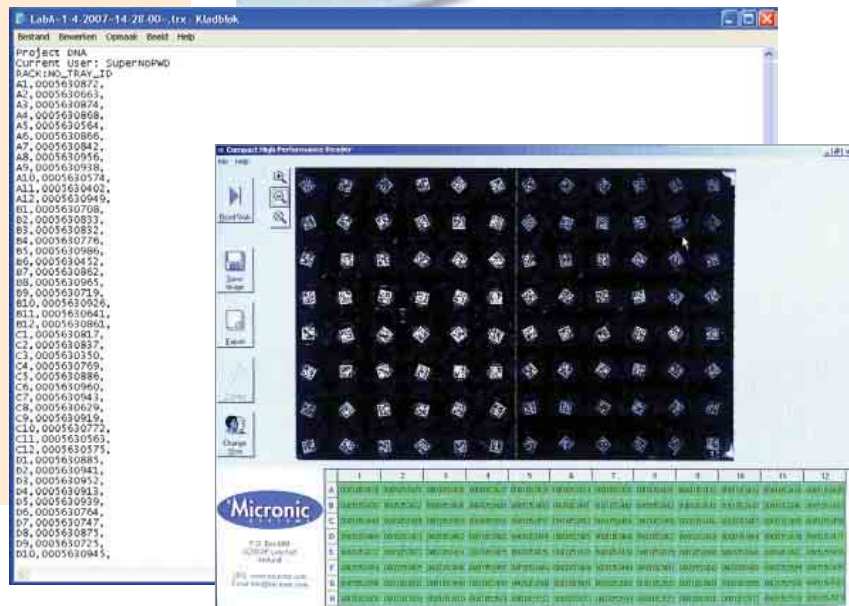
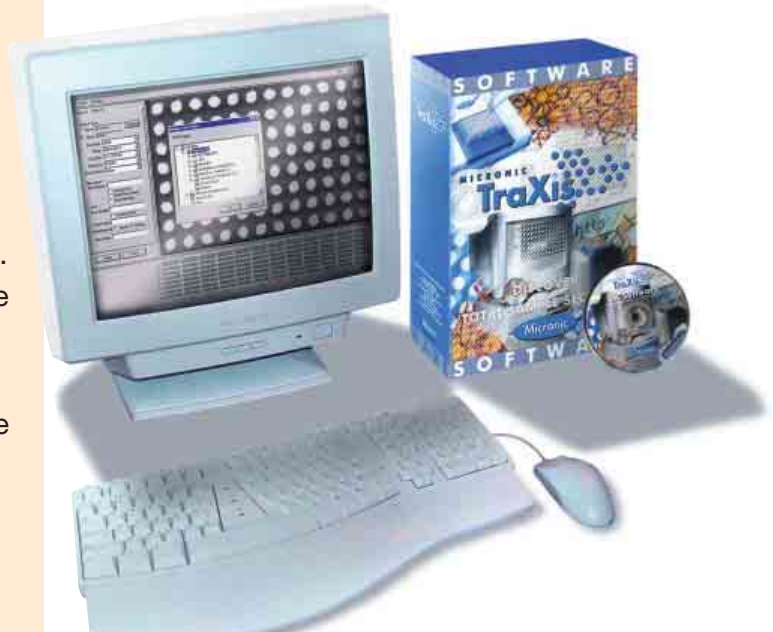
**Available upon request
– Single Tube Readers
and customer specified
readers for automated
high throughput
environment.**

Readers & Scanners

Powerful Database Integration Software

Long experience has led Micronic to be familiar with the data handling needs of Sample Storage laboratories. Micronic tube reader/scanner software has been developed to be easy-to-use, yet offer the versatility to convert 2D code data into a wide variety of file formats. As a consequence, Micronic Readers and Scanners can export data files into virtually any database or spreadsheet facilitating easy integration with LIMS and automation systems.

- Data output to virtually any database or spreadsheet.
- Easy-to-use.
- ODBC compliant.
- Supports ACTIVEX remote control and ETHERNET network connectivity.



Ordering Information

2D barcode readers

M55103	Single Tube Reader (Tracker DM or TraXis)
M55114	Multi-Tube Scanner-96 (Tracker DM or TraXis)
M55102	High Throughput Reader (Tracker DM or TraXis)

For further information visit www.micronic.com

Increasing productivity...

Automated Systems

The ever-growing requirement for higher sample throughput can lead to workflow bottlenecks in unforeseen areas of the laboratory. In response to this demand Micronic has developed a range of task dedicated automated instruments.

Auto Decapper

Removing caps from large numbers of sample storage tubes can be a tedious and time-consuming task. Easy to install and operate the Auto Decapper has been designed to simultaneously remove 96 caps from any Micronic rack. To operate simply place a rack of capped tubes onto the access tray, push the start button and the Auto Decapper will quickly and gently remove all of the caps.

VolumeCheck

The VolumeCheck is an innovative automated system that enable fast and reliable determination of sample volume in unsealed 96-well deep or shallow-well microplates, 96-tube racks, and high-volume test tube racks. Using proprietary acoustic sensor technology the VolumeCheck is able to provide high accuracy non-contact sample volume determination, for example $\pm 12.5\mu\text{l}$ / well in a 2 ml deep well plate. Sample volume is derived from the acoustic sample measurement compared against a calibration data set generated from previously collected known sample volume. The VolumeCheck provides a valuable automated tool for applications including sample volume verification, minimum volume measurement and sample volume measurement in compound libraries.



Auto Decapper

- Rapidly removes 96 TPE Caps.
- Increases user productivity.
- Reduces the possibilities of sample contamination.
- Automation friendly - activated via contact switch closure or serial port.



Volume Check

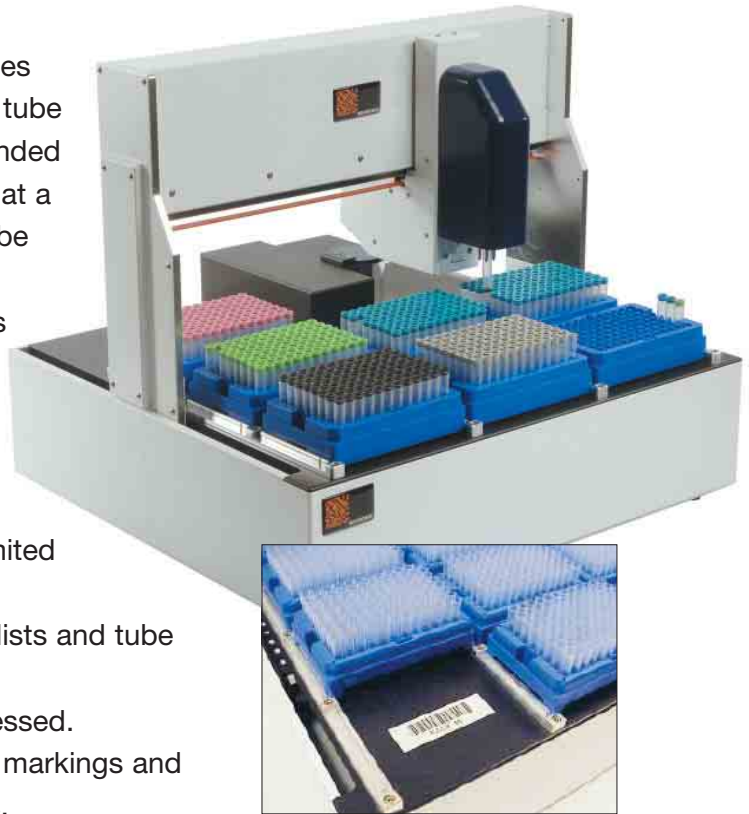
- Non-contact, high accuracy volume determination.
- Available in 3 configurations (standard, high-speed, large volumes).
- Highly productive – scans a complete 96-well plate in 1 minute.
- Intuitive software for scanning & data collection.
- Traceable sample management.

Automated Systems

Auto Tube Sorter Systems

The Micronic XL20 Tube Handler automates transferring of tubes between multiple 96 tube racks. The XL 20's robotics allows unattended processing of 20 tube racks (1920 tubes) at a time. For larger numbers of tubes, the tube racks can be exchanged dynamically. The XL20's Work List Manager software is highly intuitive to use and enables rapid processing of user work lists to sort, scan, and weigh tubes.

- High throughput (900 tubes/hour).
- Unattended processing of virtually unlimited numbers of tubes.
- Intuitive software to process user work lists and tube scans results in real time.
- Complete audit trail for each tube processed.
- Optional 2D scanner to decode tube ID markings and analytical balance for weighing samples.



Pneumatic SafeSealer

The Micronic Pneumatic SafeSealer is a low cost, semi-automated tube capping device designed to accelerate the process of sealing your samples to ensure their integrity. Robust and easy-to-use the compact benchtop Pneumatic SafeSealer provides fast and consistent capping of all Micronic tubes and racks.



Ordering Information

M35003	XL9 Auto Tube Sorter
M35001	XL20 Auto Tube Sorter
M35011	VolumeCheck 100
M35000	Automatic DeCapper-96
M35007	Pneumatic SafeSealer
M55006	Manual CapMat Sealer

For further information visit www.micronic.com

High precision ... **Liquid Handling**

Manual Pipettors

Micronic Ergo Comfort pipettes have been designed with the highest level of accuracy, safety and user comfort. Requiring only a very low activation force and incorporating a unique tip ejection method, Ergo Comfort pipettes reduce operator strain minimising the risk of RSI. The Ergo Comfort range includes single and multi channel pipettes for all applications ranging from low to high volume (0.2µl – 5000 µl) dispensing. Due to the unique tipcone design Ergo Comfort pipettes can be used with the complete Micronic Expell tip range and most tips supplied by other leading manufacturers.

- High accuracy and precision.
- Robust and reliable.
- Lightweight and easy-to-use.
- Easy to calibrate, adjust and maintain.
- Autoclavable.

Ordering Information

C200-01EC	Single Channel Ergo Comfort pipette (0.2µl-5000µl)
C200-08EC	Multi Channel Ergo Comfort pipette (50µl-300µl)
C2001AM	Electronic Pipette (Single or Multi Channel)

For further information visit www.micronic.com



Electronic Pipettors

Micronic's Electronic Pipettor range combine the features of the Ergo Comfort Manual Pipettors with the benefits of precision motor driven liquid handling and an electronic information display. Each Micronic electronic pipettor has a highly intuitive user interface. Frequently consulting the user manual is no longer required as the software guides even occasional users through pipetting protocols including forward and reverse pipetting, multi-dispensing, mixing and sequential dispensing.



- Affordably priced.
- Large, easy-to-read display.
- High accuracy and precision.
- Wide range of easy-to-use pipetting and dispensing protocols.
- Extensive memory capacity (9 pipetting/dispensing protocols).
- Includes 2 Li batteries and recharger – high productivity.

Liquid handling

Expell tips

Manufactured from special polymers and with an extremely smooth interior, Micronic Expell tips have been developed for a wide range of applications in the field of liquid handling. The use of high-grade pure polypropylene virtually eliminates sample retention and reduces the binding of DNA, RNA and proteins to a minimum. Tests show that the Expell tips deliver volumes within 0.1% of the set volume, versus 0.5–0.7% for standard tips. This significant difference in sample retention both increases the accuracy of your pipetting and saves precious samples. All Micronic Expell tips are manufactured to industry-leading strict tolerances with ideal wetting properties, high transparency and purity levels.

- Ultra-low sample retention (minimises sample loss).
- Comprehensive range.
- High purity polypropylene reduces binding of DNA, RNA and proteins.
- Fully compatible with Micronic pipettors.

Expell Filter tips

Micronic Expell Filter tips are specially designed to prevent airborne contaminants from coming in contact with the barrel of the pipettor. All Expell Filter tips are tested and certified to strict bio-load specifications.

- Sterile.
- No detectable nucleic acid, endotoxin or endonuclease contamination.



Expell Filter tips



Expell Pipette tips



Innovative packaging

Micronic Expell tips are supplied racked in handy boxes that occupy minimum bench space and offer easy access to the next rack used. Due to the innovative packaging, the racked tips take up less storage space than conventional tips and generate less waste.

Ordering Information

E5130040	10µl Expell *
E5130070	200µl Expell *
E5130100	300µl Expell *
E5130140	1000µl Expell *

* Tip or Filter tip

For further information visit www.micronic.com

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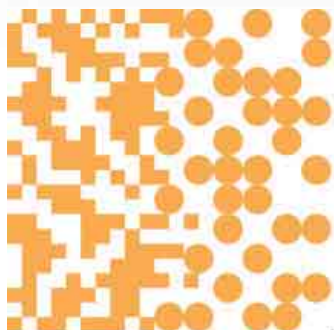
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