

Automation



InMotion™ Autosamplers

Flex

Pro

Max



Put Your Lab InMotion™
Flexible and Efficient

METTLER TOLEDO

Put Your Lab InMotion™

Flexible and Efficient Autosamplers

Automation in a laboratory today has high demands for a variety of samples and workflows. Automation is no longer just going from sample to sample for analysis. From eliminating process order and transcription errors of sample information to complex cleaning and environmental control and protection for analysis, our autosamplers are designed to assist in every way for flexible workflows and efficient analysis.

Maximum throughput



Designed to maximize throughput in minimal space, InMotion Autosamplers increase productivity without sacrificing laboratory bench space. InMotion Autosamplers are a fit for any workload and bench capable of analyzing over 300 samples.

Flexible workflows



Intuitive and flexible programming in our instruments allows for tailored workflows of your samples. Use the PowerShower™ and conditioning sequences for effective cleaning and to maintain sensors for secure operations or parallel tasks for ultimate efficiency.

Modular and tailored for your samples



Every lab and sample has its own demands. Build your autosampler according to your sample needs with modular boards for extra pumps, CoverUp™ system for protecting your samples and operators as well as the water bath sample trays for temperature control of your samples.



Put your lab in motion
to work for you.



Maximum Productivity in Minimal Space

Engineered to increase productivity without sacrificing laboratory bench space, InMotion™ Autosamplers are a fit for any lab. Designed to go vertical and not horizontal, accessories and components are stacked next to the towers or inserted into the main housing saving further space as your instrument is expanded.

Engineered for throughput



The Flex series offers simple automation with one row of samples. Increase your throughput with the Pro and Max series utilizing the extending arm of the tower to reach into the rack, greatly increasing throughput. Keep up with your workloads with one of our InMotion Autosamplers.

Vertical expansion



Add pumps and other peripherals without giving up laboratory bench space. Each pump is designed to magnetically lock onto the InMotion Autosampler. Additional units stack on to one of the pumps allowing complex systems to be built in minimal space.

High throughput liquid sampling



The aliquot system saves space and time for automated liquid sampling. Use the Liquid Handler to accurately aliquot and transfer various volumes to the built in titration stand. Just pour and go for automatic, accurate and repeatable liquid sampling and titrations.



Stay productive with true
high throughput analysis.



Flexible Automation to Suit Your Workflow

The open programming of our instruments coupled with the flexibility of the InMotion™ Autosamplers makes matching workflow processes easy. Advanced solvent addition, rinsing, draining and conditioning are intuitive and simple to program. Clever automation sequences can be programmed to perform two tasks simultaneously, truly increasing productivity by preparing your sample while testing another.

Powerful cleaning for powerful automation



Cleaning couldn't be more thorough than with our Power-Shower™ rinsing system. Rinse off your testing components with the appropriate solvent with a high powered multi-angle rinse sequence to ensure no carry over. Further cleaning is accomplished by using a range of dedicated cleaning and rinse beakers.

Double your efforts



Using a second tower can double throughput by sharing tasks. Use any of our Excellence Line Titrators to add reagents and solvents, stir and even heat a sample to prepare it for titration while the second tower is titrating the previously prepared sample. Use the T90 titrator to perform simultaneous titrations on a sample in sequence.

Stay connected with a glance



One quick glance at the LED indicator light on the top of towers lets you know if your analysis is still running, needs your attention or is ready to run more samples. Be productive on the go. Use LabX® to email results or a message to let you know your analyses are finished and more samples can be loaded.



Rest assured your testing components are clean and ready from the first sample to the last.



Modular and Tailored for Your Samples

InMotion™ Autosamplers can be tailored for your samples. Titrating or measuring is just a part of your process. Make sure your conditions are met with our wide range of sample specific accessories suited for your analysis. Build the system to meet your needs; no more and no less than what is needed with our modular systems built to your analysis.

Automated sample identification



Adapt InMotion to read your sample information for you. Use the barcode reader for automatic sample identification. Use our LabX® SmartCodes™ to make decisions about which analysis to run based on the read information. Optimize your weighing workflows with our SmartSample™ RFID technology and Excellence Balances.

The right temperature for your analysis



Water bath racks allow for full temperature control of all the samples in the rack. Go cold to keep your volatile samples in the beaker, 25 °C for accurate and regulated pH and conductivity measurements or heat to body temperature for stomach simulated pH stat titrations.

We have you covered



Protect your samples from the atmosphere or your operators from volatile and odiferous samples or solvents with our CoverUp™ Lid Handling system. Place the lids on the sample beakers and have them removed just before analysis and placed back on directly after analysis. Also cover beakers and solvents used for cleaning in-between samples.



Read, temperate, cover and uncover your samples as you would manually.



Secure and Efficient Weighing of Titration Samples

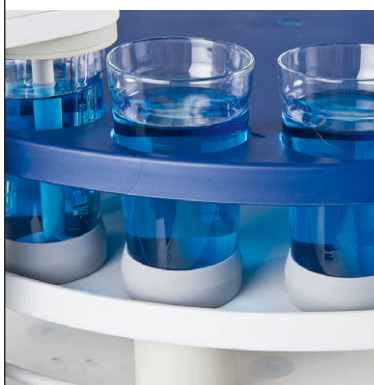
Gain the ultimate efficiency and security weighing titration samples with SmartSample™. This optimized workflow allows for all sample information to be entered at the Excellence Balance with the SmartSample kit while weighing. Eliminate back and forth workflows, transcription errors and no longer worry about placing your samples on the rack in the wrong order.

Efficient weighing for titration



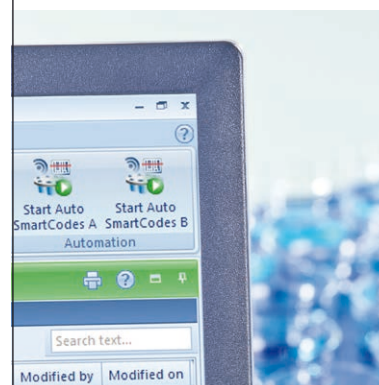
Enter all your sample information at the Excellence Analytical balance as you weigh the sample. The tailored interface lets you rename entry fields to match your processes for operator clarity. No more writing weights on beakers, paper or printing from the balance. All the information about the sample is with the sample when it is removed from the balance.

Reduced errors



Simply place the samples on the InMotion™ Autosampler and start analysis. The instrument automatically pulls all the sample information from the reusable RFID sleeve or the RFID tag directly placed on the beaker. Eliminate transcription errors and no need to worry about placing samples in a particular order, thanks to wireless data transfer.

Intelligent decisions



Add LabX® Titration SmartCodes™ to your system to benefit from intelligent decisions about your samples. Enter the method ID to be run on the sample at the balance and let SmartCodes do the rest for you. Load an entire rack of different samples to be run with different methods and begin your analysis with just One Click®.



Use the latest in RFID technology to program and store your sample information with the sample. Watch and learn how SmartSample works at www.mt.com/SmartSample

Elegant and Thorough Automation with Multiparameter Analyses

Truly maximize the productivity offered by InMotion™ with multiple tests for one sample. In addition to offering the intuitive and simple to use One Click® interface for all of our analytical laboratory instruments, we also offer one common autosampler. The InMotion Autosamplers not only connect to Excellence Titrators, but also to our LiquiPhysics™ Excellence density meters and refractometers, SevenExcellence™ multiparameter benchtop meter, and UV/VIS spectrophotometers. Combine instruments for ultimate efficiency in your lab making your own multiparameter system.

°Brix and pH in beverages



Easily determine pH and Brix in juices with the addition of a SevenCompact™ pH meter to your density meter or refractometer. Thoroughly mix the juice with the Compact Stirrer while measuring pH and before transferring to the LiquiPhysics instrument. De-gassing of carbonated beverages is simple and efficient.

Easy to use and versatile



With the PowerShower™, a single click on the touchscreen thoroughly cleans the whole system between sample series. Automatically park the pH electrode in the proper storage solution when sample analysis is complete.

Multiparameter analysis



Combine instruments in-line with the InMotion Autosamplers for multiparameter analyses, e.g. °Brix, acidity and pH in beverages. Directly measure potential of samples, send the samples to other instruments before or after dilution while automatically taking sample aliquots for titration.



Calculated results

Optimize your lab's productivity.

InMotion Autosampler connects to:



Refractometer



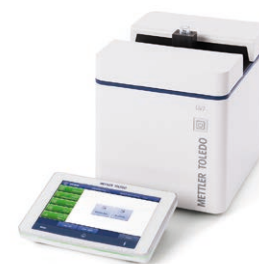
Density Meter



Titration



pH Meter



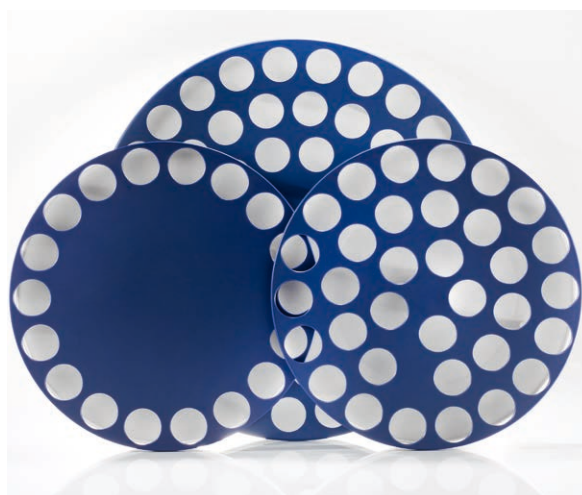
UV/VIS

Clever Automation Accessories for Tailored Solutions

Build the right automation solution for your laboratory using our wide range of specific and tailored accessories to meet all aspects of your sample analysis requirements.

Racks

Base	Number of Samples	Beaker Size (mL)
Flex	50	25
	27	80
	18	100
	15	180
	11	250
Pro	182	25
	69	80
	34	100
	23	180
Max	303	25
	113	80
	55	100
	43	180
	24	250
Water Bath		
Flex	18	100
Pro	61	80
	29	100



Flex, Max and Pro 100 mL Racks

Feature	Instrument				Base Model		
	Titration Excellence	Density Meters and Refractometers	UV/VIS	Seven Excellence	Flex	Pro	Max
Additional Tower	Yes	-	-	-	Yes (not with 25 mL Racks)		
PowerShower	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Line Rinse/Rinse	Yes	Yes	Yes	-	Yes	Yes	Yes
Conditioning	Yes	-	-	-	Yes	Yes	Yes
Automated Sensor Park	Yes	Yes	-	-	Yes	Yes	Yes
LED Status Light	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stirrer/Pump Ports	2 to 6	2 to 4	2 to 4	2 to 6	2 (expandable to 6)		
SmartSample*/**	Yes	-	-	-	Yes	Yes (outer 2 rows)	-
Barcode Reader (1D and 2D) */**	Yes	Yes	Yes (with LabX)	Yes	Yes	Yes (outer row)	-
Aliquot Kit	Yes	-	-	-	-	Yes (25 mL Rack)	-
Chemical Oxygen Demand Kit	Yes	-	-	-	Yes	-	-
Karl Fischer Kit	Yes	-	-	-	Yes	Yes	-
Water Bath Rack	Yes	Yes	Yes	Yes	Yes	Yes	-
Magnetic Stirrer*	Yes	Yes	Yes	-	Yes	Yes (outer 2 rows)	-
Compact Stirrer	Yes	-	-	Yes	Yes	Yes	Yes

* Not with Water Bath Racks / ** Not with 25 mL Racks



SevenExcellence pH meter with InMotion Flex, RM40 Refractometer with InMotion Pro and T9 Titrator with InMotion Max.

Accessories

Pumps	SD660 Membrane
	SP280 Peristaltic
	SPR200 Reversible Peristaltic
	Solvent Manager
Kits	SmartSample™
	CoverUp™
	Karl Fischer
	Aliquot
Liquid Sampling	COD
	Liquid Handler
Stirrers	TV6 Valve
	Compact Overhead
Option Boards	Magnetic, Undermount
	CoverUp / Stirrer / Pump
	Barcode / SmartSample



SPR200 Pump



Barcode / SmartSample Option Board



Chemical Oxygen Demand Kit



Karl Fischer Kit



LabX® PC Software



Liquid Handler



SmartSample Tags and Sleeves

Intuitive and Universal

Make operations simple and universal in your laboratory with our fleet of instruments and balances.



Titration Excellence

The intuitive user interface and One Click® operation make titrations and manual operations fast and simple on our Excellence Titrators. Secure your analyses with detailed user management, Plug & Play sensors, burettes and peripherals. Build the titrator for your needs today, and tomorrow, with our multitude of modular accessories.



LiquiPhysics™ Excellence

The multitasking LiquiPhysics system reliably measures density, refractive index and related values such as °Brix, HFCS, alcohol concentrations or API gravity. It can be automated and upgraded to multiparameter systems for simultaneous determination of additional parameters such as pH / conductivity, color, acidity and more.



SevenExcellence™ multiparameter

With this professional meter for the determination of pH, conductivity, redox potential, ion concentration and dissolved oxygen, a parallel measurement of up to three channels is possible. SevenExcellence stands for high performance, safe results and solid compliance. Via the LabX software it can be connected to the InMotion sample changer.



InMotion KF Oven Autosamplers

Modern and extremely compact, the new InMotion KF Oven Autosamplers allows up to 26 samples to be placed on a rack of only 25 centimeters. The Temperature Scan functionality speeds up the analysis of unknown samples by determining, in just one single run, the optimum temperature for heating the sample.

One Click is a Registered Trademark of METTLER TOLEDO in Switzerland, the European Union, Russia and Singapore. LabX is a Registered Trademark of METTLER TOLEDO in Switzerland, USA, China, Germany and a further 13 countries.

www.mt.com/InMotion

For more information

METTLER TOLEDO Group

Laboratory Division
Local contact: www.mt.com/contact

Subject to technical changes
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