

Automated Sample Changers

Xsample Series



Your Sample, Our Solution

Anton Paar's Xsample series offers automation for every laboratory need – from single-sample simplicity to high-throughput performance. Each model ensures precise, user-independent sample handling across a wide range of viscosities, temperatures, and applications. Whether you're working with beverages, chemicals, pharmaceuticals, or fuels, Xsample automates filling, rinsing, and drying for reliable results and maximum efficiency.

Why automate your measurement workflow?

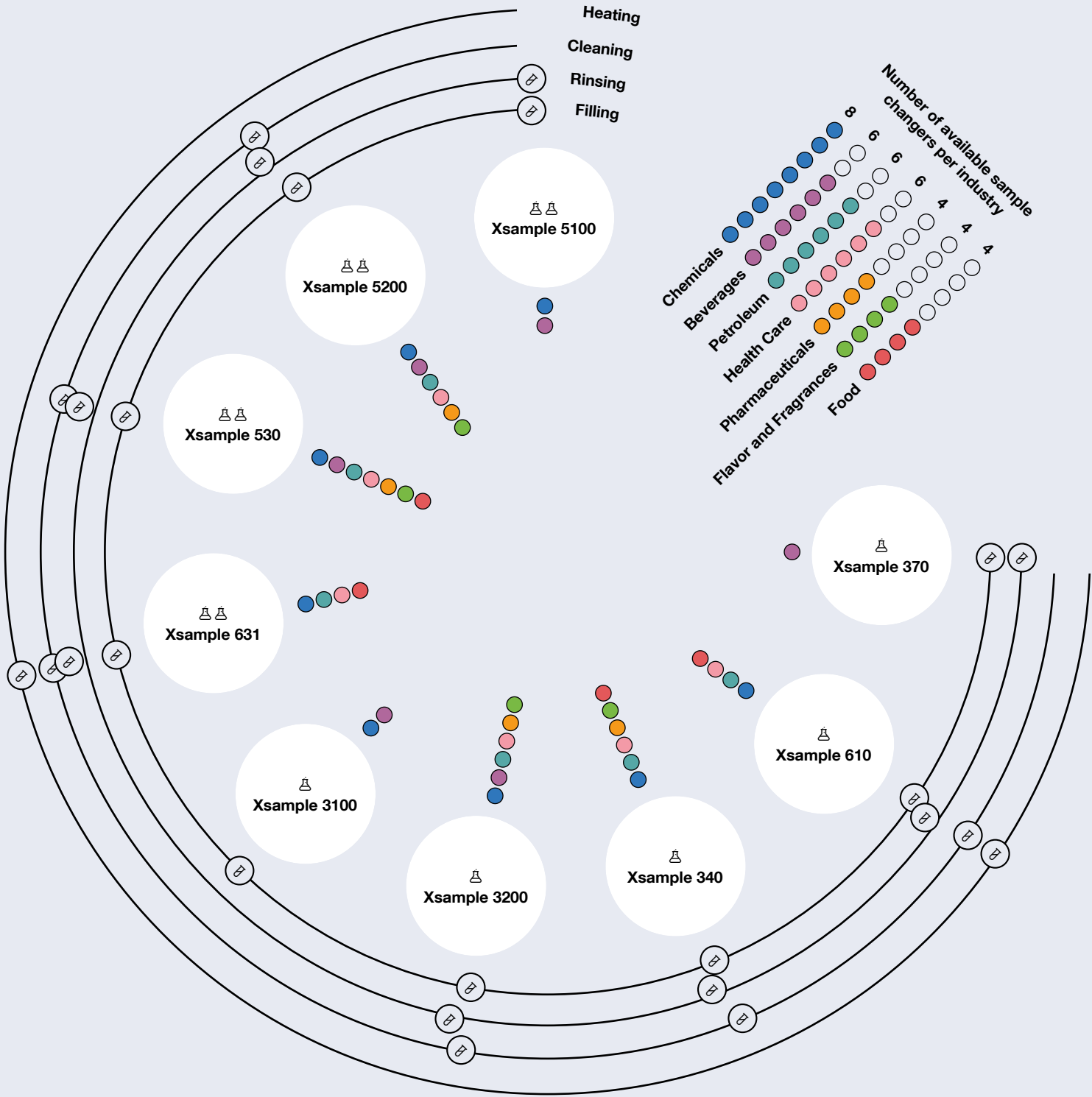
Maximize system uptime

Guarantee error-free results

Ensure long-term reliability

Reduce operational costs

Boost productivity



Reliable Efficiency, Sample after Sample

Xsample 5100

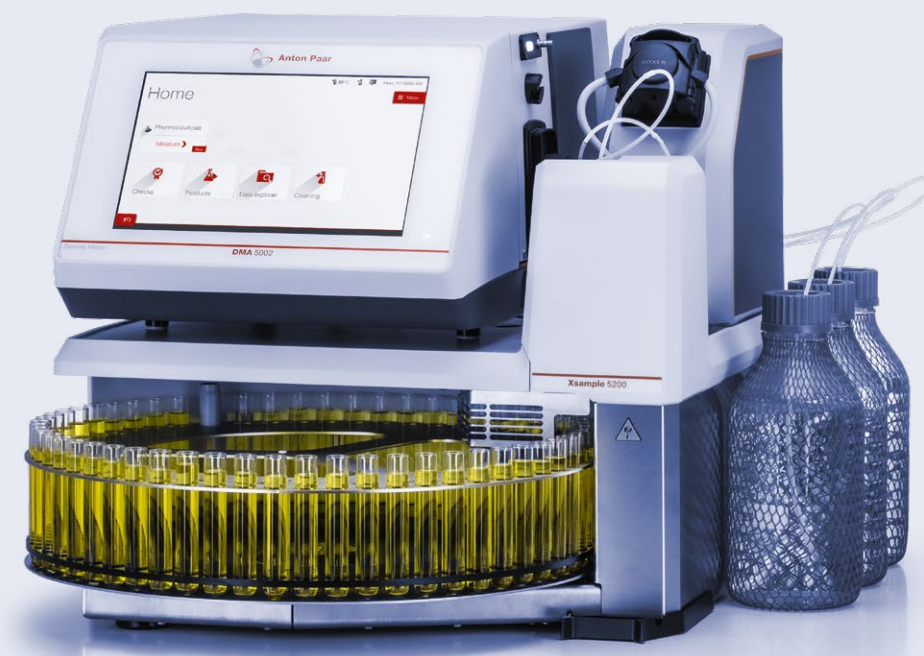
The Xsample 5100 multi-sample changer with peristaltic pump automates filling, sample identification, and system rinsing for medium to high sample throughput. With optional barcode scanning and customizable vial magazines, it integrates seamlessly into any laboratory workflow. Priority sample selection enables flexible handling, while guided routines ensure precise, unattended operation and consistent measurement quality.



Unmatched Speed. Reliable Precision.

Xsample 5200

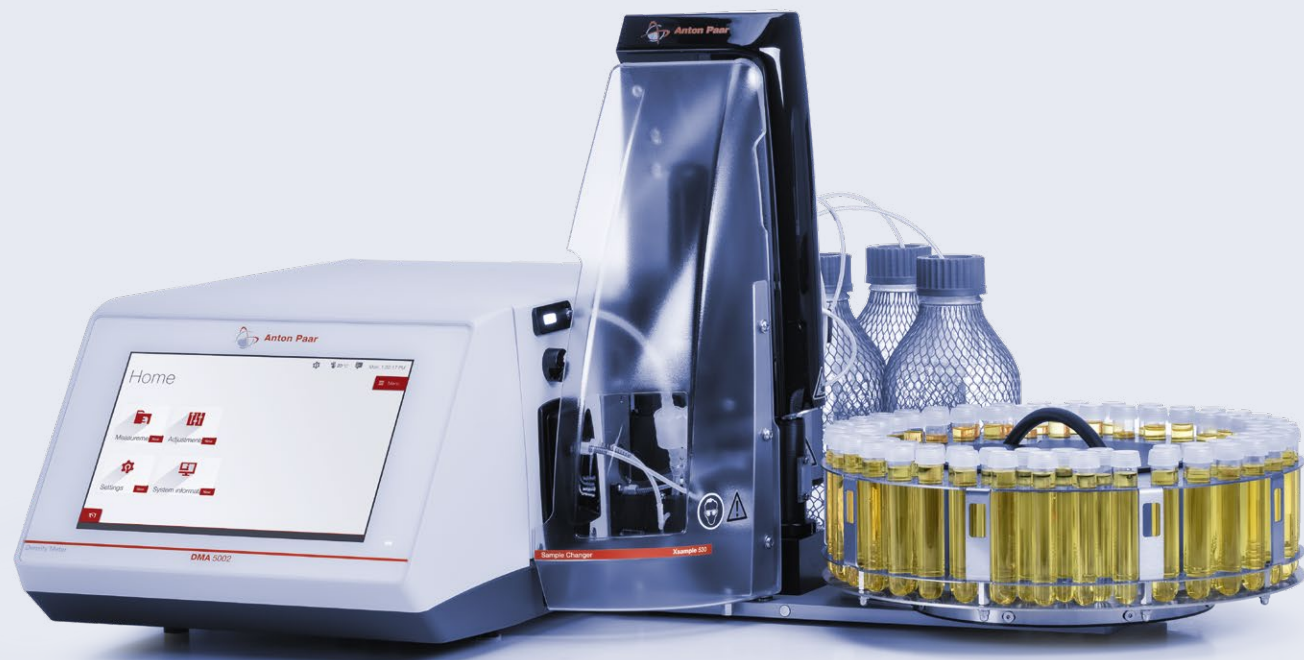
The Xsample 5200 multi-sample changer with rinsing and drying sets new standards in automation speed and precision. Up to 35 % faster than comparable systems, it automates filling, multi-solvent and air-gap rinsing, and drying – ensuring contamination-free results. Intelligent sample recognition, barcode scanning, and a new magazine visualization feature ensure reliable, efficient operation in high-throughput environments.



Advanced Cleaning Performance

Xsample 530

Xsample 530 delivers superior cleaning capabilities for demanding sample matrices. With support for up to three rinse solvents, inside/outside needle rinsing, and automated sequences, it guarantees carryover-free measurements, even for challenging samples. The 71-position customizable magazine and optional barcode scanner simplify workflows and ensure efficient, reliable operation across a wide range of applications.



High-Viscosity Sample Handling

Xsample 631

Xsample 631 manages up to 36 heated sample positions for unattended measurement of highly viscous materials. Electrical heating up to 95 °C enables rapid sample preparation while ensuring full compliance with ASTM standards. Its robust design, combined with a removable magazine, makes it the ideal solution for laboratories requiring precise, continuous measurement of high-viscosity samples.



Automation Made Simple

Xsample 3100

The Xsample 3100 single-sample changer with peristaltic pump is your entry point into automated filling. Simply place the tube, press start, and the system quickly and reproducibly fills low-viscosity liquids. Guided workflows minimize operator influence, ensuring reliable results and consistent operation. Compact and easy to integrate, Xsample 3100 is the ideal first step toward automation in any laboratory.

Rinse. Dry. Ready to Measure.

Xsample 3200

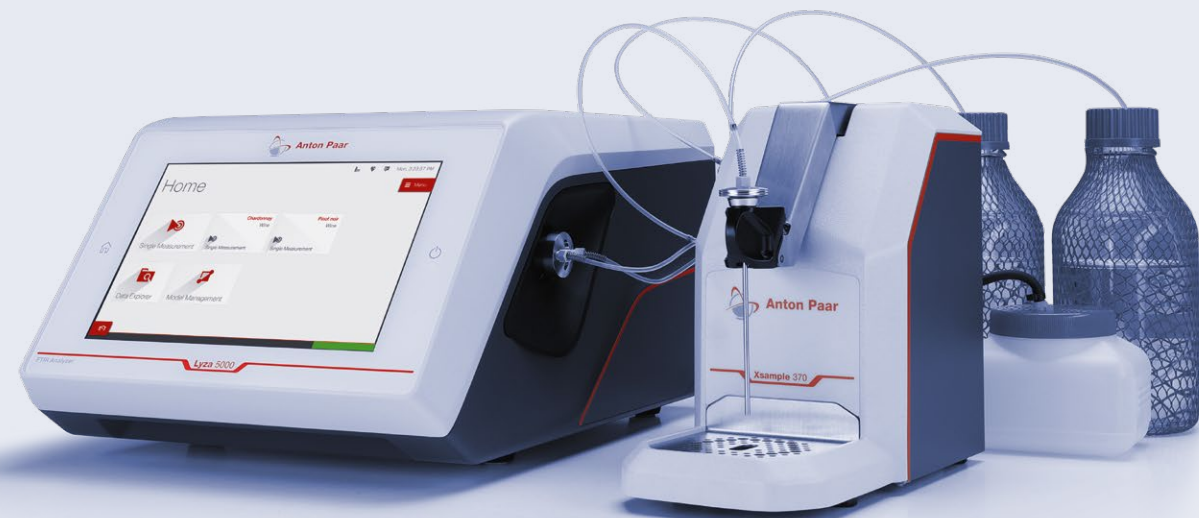
The Xsample 3200 single-sample changer with cleaning function offers flexible automation for laboratories handling a variety of liquid types. An integrated air pump accelerates drying and shortens measurement cycles, while three rinse connections support the use of up to three solvents or two solvents plus air injection. Inside/outside needle rinsing and drying eliminate manual handling and ensure contamination-free, reproducible results.



Optimized for Routine Automation

Xsample 370

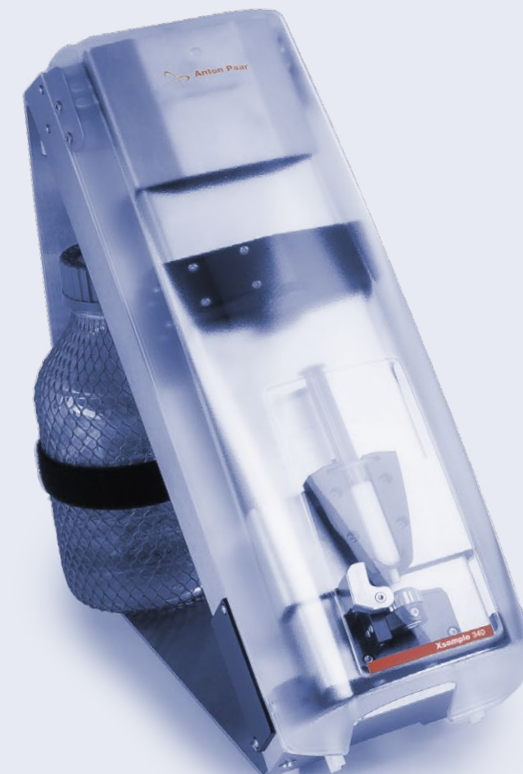
Xsample 370 is the ideal solution for laboratories analyzing low-viscosity liquids that require consistent measuring conditions. It automates rinsing and drying routines to keep the measuring cell clean and ready for the next sample – reducing manual effort, ensuring reproducible results, and maintaining optimal performance for reliable day-to-day operation.



Designed for Tough Samples

Xsample 340

Xsample 340 handles challenging samples with precision and confidence. Its robust design accommodates various syringe types and viscosities while maintaining perfect filling through adjustable speeds. Automatic rinsing with up to two solvents ensures clean measuring conditions and prevents cross-contamination, even with aggressive or highly viscous samples.



For Semi-Solid Samples

Xsample 610

Built for demanding tasks, Xsample 610 is a heated single-sample changer for highly viscous or solid samples. With temperatures up to 95 °C, it enables reliable filling of oils, gels, and waxes. Automated rinsing and drying ensure user safety and consistent results while eliminating manual handling of hot syringes. It's ideal for laboratories requiring precision under challenging conditions.



AP Connect – Digital Automation for Your Laboratory Workflow

Automation doesn't stop at sample handling.

While Xsample takes care of your physical samples, Anton Paar's lab execution system, AP Connect, automates what happens next. Results are captured automatically, ready to be reviewed and exported to your preferred laboratory systems.

The combination of instrument automation and data automation provides complete workflow integration – from sample intake to compliant digital reporting – delivering higher productivity, greater data integrity, and full transparency across your connected laboratory.



Our well-trained and certified technicians
are ready to keep your instrument running smoothly.

Maximum uptime | Warranty program | Short response times | Global service network

Sampler series	Xsample 5100	Xsample 5200	Xsample 530	Xsample 631
Description	For samples that can be filled by replacement without intermediate cleaning. Offers rinsing with one dedicated solvent.	For fast and precise analysis of low-viscosity samples that require automatic cleaning after each measurement. Customized magazines streamline workflows in the lab.	For versatile samples that require thorough cleaning after each measurement. Supports recovery of expensive or problematic samples.	For samples that cannot be filled, or are even solid, at room temperature and require automatic cleaning after each measurement.

Technical Specifications				
Max. sample viscosity*	1,000 mPa·s	1,000 mPa·s	36,000 mPa·s	36,000 mPa·s at 95 °C
Max. temperature	-	-	-	95 °C (203 °F)
Filling mode	Peristaltic pump	Peristaltic pump	Piston pump	Piston pump
Samples/hour*	60*	30*	12	8
Sample volume	Approx. 10 mL	Approx. 5 mL	Approx. 3 mL	Approx. 4.5 mL
Magazine	57/32 positions	57/32 positions	71/35 positions	36/56 positions
Sample vials/packages	50 mL (12 mL optional)	12 mL (50 mL optional)	12 mL, 20 mL, 40 mL	12 mL
Sample recovery	Yes	Yes	Optional	No
Dimensions (L x W x H) excl. master instrument	657 mm x 490 mm x 427 mm (25.9 in x 19.3 in x 16.8 in)	657 mm x 490 mm x 427 mm (25.9 in x 19.3 in x 16.8 in)	370 mm x 490 mm x 430 mm (14.6 in x 19.3 in x 16.9 in)	635 mm x 365 mm x 425 mm (25 in x 14.4 in x 16.7 in)
Weight excl. master instrument	22.3 kg (49.2 lbs)	23.7 kg (52.2 lbs)	17.0 kg (37.5 lbs)	22.8 kg (50.3 lbs)
Master instruments**	– Lovis 2001 – DMA 4002 – DMA 5002 – DMA 6002 – DMA 6002 Sound Velocity – Alcolyzer 7001 – Abbemat Advanced series – Abbemat Pharma series	– Lovis 2001 – DMA 4002 – DMA 5002 – DMA 6002 – DMA 6002 Sound Velocity – Alcolyzer 7001 – Abbemat Advanced series – Abbemat Pharma series	– Lovis 2001 – DMA 4002 – DMA 5002 – DMA 6002 – DMA 6002 Sound Velocity – SVM series	– DMA 4002 – DMA 5002 – DMA 6002 – SVM series

* Measuring time is standardized to 30 seconds
** Xsample 3100/3200/5100/5200 can also be used standalone. For further information contact support-lps@anton-paar.com

Xsample 3100	Xsample 3200	Xsample 340	Xsample 610	Xsample 370
For streamlined sample handling with guided, user-independent workflows. Resistant to a wide range of chemicals, including highly corrosive substances.	For enhanced workflows with integrated cleaning capability. Sample recovery of expensive or problematic samples saves costs and reduces waste.	For samples that require automatic cleaning after each measurement. Can also be used for high-viscosity samples.	For high-viscosity samples that cannot be filled at room temperature and require automatic cleaning after each measurement.	For easy, convenient operation with rinse capability to prepare the cell for the next analysis.

Technical Specifications				
1,000 mPa·s	1,000 mPa·s	36,000 mPa·s	10,000 mPa·s at 95 °C	1,000 mPa·s
-	-	-	95 °C (203 °F)	-
Peristaltic pump	Peristaltic pump	Syringe	Syringe	Peristaltic pump
60*	30*	12	8	30
Approx. 10 mL	Approx. 5 mL	Approx. 3 mL	Approx. 3 mL	Approx. 24 mL
No	No	No	No	No
-	-	2 mL, 5 mL, 10 mL	5 mL, 10 mL	-
No	Yes	No	No	No
255 mm x 117 mm x 230 mm (10.0 in x 4.6 in x 9.1 in)	308 mm x 139 mm x 232 mm (12.1 in x 5.4 in x 9.1 in)	480 mm x 230 mm x 420 mm (18.9 in x 9.1 in x 16.5 in)	480 mm x 230 mm x 420 mm (18.9 in x 9.1 in x 16.5 in)	310 mm x 145 mm x 230 mm (12.2 in x 5.7 in x 9.1 in)
2.3 kg (5.1 lbs)	3.6 kg (7.9 lbs)	9.2 kg (20.3 lbs)	9.8 kg (21.6 lbs)	4 kg (8.82 lbs)
– Lovis 2001 – DMA 4002 – DMA 5002 – DMA 6002 – DMA 6002 Sound Velocity – Alcolyzer 7001	– Lovis 2001 – DMA 4002 – DMA 5002 – DMA 6002 – DMA 6002 Sound Velocity – Alcolyzer 7001	– Lovis 2001 – DMA 4002 – DMA 5002 – DMA 6002 – DMA 6002 Sound Velocity – SVM series	– DMA 4002 – DMA 5002 – DMA 6002 – SVM series	– DMA 4002 – DMA 5002 – DMA 6002 – Lyza 5000

