Struers
Ensuring Certainty

Struers grinding and polishing equipment

PERFECTLY REPRODUCIBLE

Optimize your grinding and polishing process with Struers

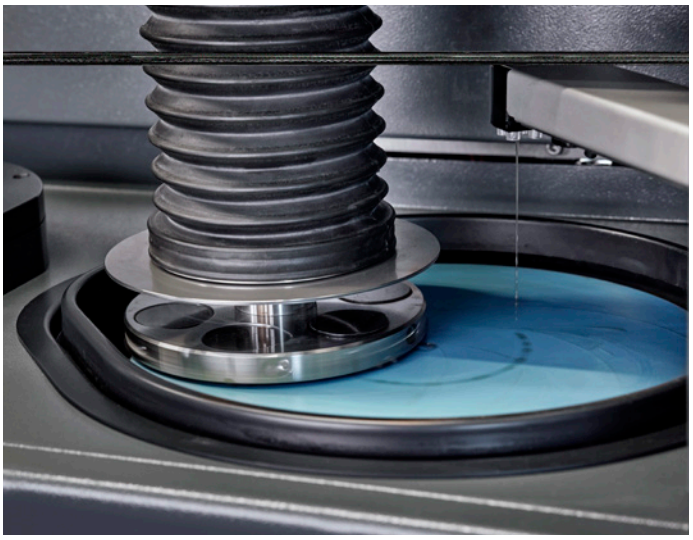
DISCOVER XMATIC AND XMATIC COMPACT

Xmatic and Xmatic Compact is a fully automated, end-to-end grinding and polishing solution. It has been designed for high-throughput labs that need the very best in terms of reproducibility, throughput, process standardization, and ease of use.

Xmatic is truly unique. Packed with our latest technology and a host of user-friendly features, it gives you exceptional process certainty, optimizing the entire grinding and polishing process and minimizing the risk of human error.

This results in a more efficient and accurate outcome that your lab and business can depend upon, while freeing up more time for your operators to focus on other tasks, such as specimen analysis.

Fully automated for maximum reproducibility

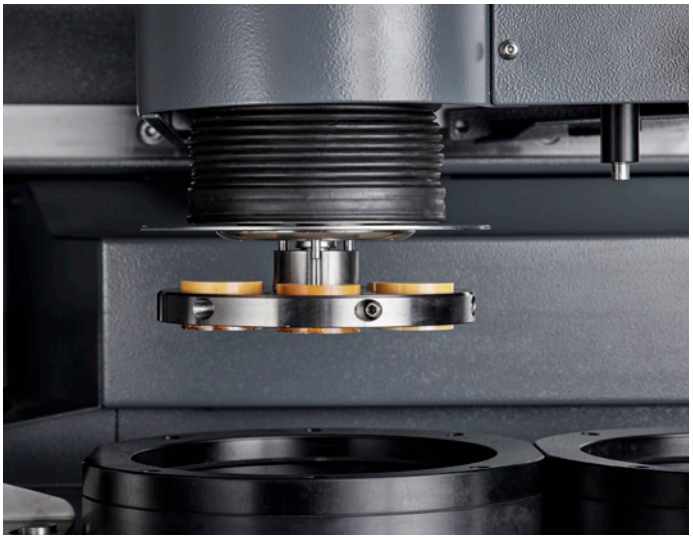


Xmatic has a broad range of automated technologies and features that help to give you the best possible reproducibility.

These include dressing of the grinding surface to help improve the efficiency, correct consumables detection, cleaning of dosing tubes to eliminate the risk of consumables contamination, and adjustment of force and dosing to match your desired number of specimens.

For you, this means greater accuracy and reproducibility for your preparation results.

Higher throughput



With Xmatic you get more dependable ways to deliver the promised number of specimens, in less time, with fewer hands, and with minimal production delays.

For example, Xmatic has rapid and simultaneous mechanical movements that reduce process time, with fast and efficient cleaning programs and up to eight specimen holders that can be loaded at any time.

Minimal contamination risks

Xmatic gives you multiple combination options for advanced cleaning and drying to minimize contamination between preparation steps, including ultrasonic, high-pressure water, soap, and alcohol.

Not only does this result in greater reproducibility for your specimen analysis, but it also helps you to increase throughput.

Full process documentation

With Xmatic, you get full documentation data in log files that record multiple variables, including the amount of specimen holders that it runs, which methods are used, consumables consumption, and how many hours in service the machine has been running for.

This enables you to standardize your process for greater repeatability, optimize it for greater accuracy and efficiency, store records for future requests, and plan for scheduled maintenance.

Optimize footprint

Xmatic has been designed to minimize the floorspace it requires, for instance via a vertical conveyor that optimizes footprint.

However, for labs where space is particularly limited, Xmatic also comes in a smaller version called Xmatic Compact that does not include a high-speed plane grinding station. Instead, plane grinding can be done on an MD grinding and polishing station with speeds up to 600 rpm and with a variety of MD surfaces for all material types.

Highly intuitive and easy to use

With an intuitive user interface the entire user experience is simple. A redesigned Graphical User Interface (GUI) uses a screen that shows a complete representation of the machine, with a vertical conveyor to the left, suspension and lubricants on the bottom, and MD surfaces to the right (so-called 'embodiment').

In addition, a data matrix code on all consumables means Xmatic can automatically detect if you are using the correct consumable, which reduces the risk of error and the time it takes to set up the equipment. The bottles also feature Easy Connectors for quick changes and zero risk of spillage.

Explore more

XMATIC GIVES YOU...

- Fully automated, end-to-end solution
- High throughput
- Maximum reproducibility
- Minimal risk of human error

05.07.22 / 62110765

Ensuring certainty

Materialographic preparation and testing demands consistent, reproducible results. These come not only from your laboratory process, operators, and equipment, but from your supply chain and your partner. As a Struers customer, you benefit from high-quality design and engineering of equipment and consumables, but just as much from our unique knowledge base, robust global supply chain, and expert service and applications support – where and when you need it. We call all this ensuring certainty.

Struers remains dedicated to making the world a better place through the pursuit of deep scientific insights and ground-breaking technology. Today, we're your trusted partner in a fast-changing world, sharing our expertise and practical experience on a global scale. This gives you innovative solutions that help you face the future with confidence. We continue to lead the way in materialographic products and services, and to shape future developments towards a better society.

www.struers.com

Struers
Ensuring Certainty