

Performance Champion SM 50

Retsch presents the worldwide first cutting mill with a removable milling chamber

Since its market launch on April 1, 2025, the new SM 50 from RETSCH has attracted considerable interest worldwide and has already been ordered dozens of times by customers around the globe. This versatile tabletop cutting mill has all the features necessary to become a classic in laboratory technology. The development team at Retsch GmbH in Haan, Germany, has successfully developed a compact and powerful cutting mill that comes with a whole series of new benchmarks. The Total Access Concept allows access to all relevant components of the grinding process via push-fit. For the first time, even the entire milling chamber can be removed - with just one hand. Retsch CEO Dr. David Szczesny: "With the SM 50, we have developed a powerful and space-saving tabletop cutting mill that raises the process of sample preparation to an entirely new level. Thanks to our unique development approach, we have once more succeeded and reinforced our position as world market leader through our innovative strength." The basis of all development processes at Retsch is the close and continuous exchange with its customers worldwide. The resulting needs and problems are evaluated and directly integrated into the development process. In addition, Retsch offers free test grinds that provide a valuable exchange with laboratories, companies and scientific institutions from all over the world. Combined with the company's long-term development expertise, the SM 50 was able to define a new cutting mill that fills a gap in the market.

The Total Access Concept, equipped with an EasyInspect hopper and push-fit components, simplifies the cleaning process for all surfaces, from the hopper to the collection container. For the first time, the removable milling

chamber allows cleaning under water. This development represents a true milestone in the field of sample preparation, reducing the entire process time by up to 30 percent and significantly reducing the risk of sample contamination. The direct integration of the cyclone into the SM 50 represents a groundbreaking technological advancement, enhancing the effectiveness of the system. In combination with an optimal flow dynamic, it achieves an exceptional sample recovery rate up to 100 percent.

Szczesny: "In addition to grinding performance, we are setting new benchmarks in ergonomics and versatility with the SM 50, which we ensure with our extensive range of accessories. Thanks to the modular design, the grinding chamber and other components can be replaced without tools. I am certain that with the SM 50, we have developed a genuine all-round solution that has been optimally adapted to the different needs of our customers."

General company information

RETSCH was founded in 1915 and today, with locations in Germany, USA, China, Japan, India, South Africa, France, Italy, Benelux, Russia, Great Britain and Thailand, is the world's leading supplier of solutions for comminution and particle measurement technology with an export share of 80 %.

RETSCH is always looking for customer and market-oriented solutions within the scope of research and development and consistently implements these in its instruments. Our guiding principles include customer proximity and technological leadership. The result is instruments whose high-quality components interact optimally to guarantee representative and reproducible analysis results with maximum operating convenience and safety. RETSCH has been part of the steadily growing international technology group VERDER since 1990, where it forms the core of the Scientific Division.