

GERSTEL

MultiPurpose Sampler

MPS robotic

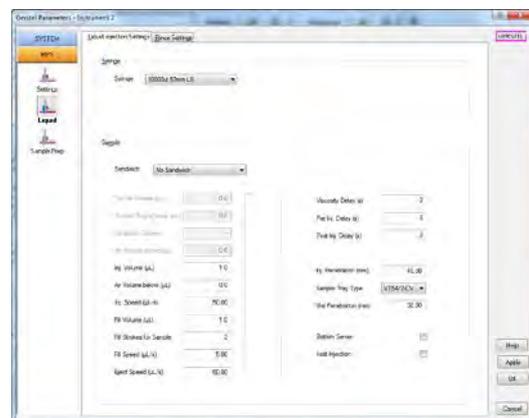
MPS robotic



As a new member of the MPS family, the MPS robotic is a highly efficient GC/MS autosampler with extended robotic functionality. The MPS robotic provides reliable processing of complex tasks. Syringe holders and syringes are integrated in special syringe modules, which can be exchanged automatically within a running sequence when using the MPS robotic^{PRO} for maximum flexibility.



The MPS robotic is controlled by the proven GERSTEL MAESTRO software in a simple and efficient manner. MAESTRO provides full flexibility by allowing an ongoing analysis sequence to be modified to incorporate priority samples. The built-in, context sensitive help function enables simple sequence and method development and setup.



MPS robotic mounted on a GC-MS/MS-system, configured for Automated Liner EXchange (ALEX).



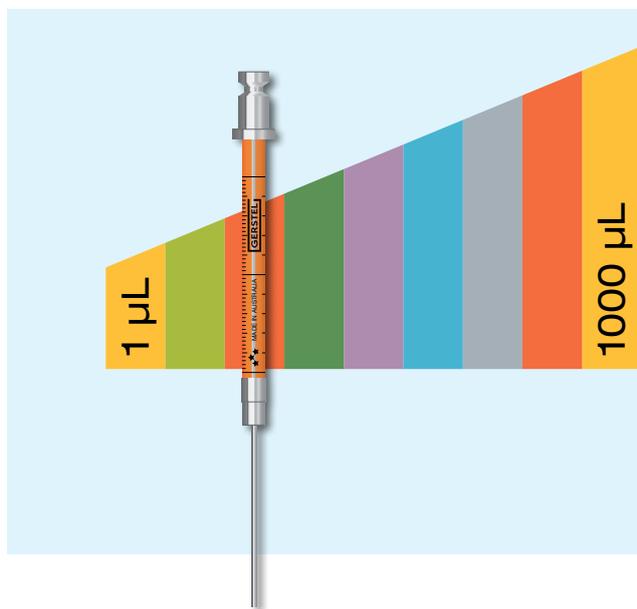
Thermal extraction and thermal desorption Of liquids and solids

In combination with the GERSTEL Thermal Desorption Unit (TDU), the MPS robotic performs automated thermal desorption of adsorbent tubes as well as thermal extraction of liquid and solid samples in disposable μ -vials. The μ -vials and the nonvolatile matrix residue are removed and discarded following the analysis, keeping the GC/MS system clean and stable.



Efficient trace analysis with the GERSTEL Twister™ and SBSE

In combination with the TDU, the MPS robotic performs fully automated thermal desorption of up to 196 Twisters for ultra-trace determination of organic compounds in aqueous and gaseous samples. While the Twister stirs the sample, analytes are efficiently extracted and concentrated in the PDMS sorbent layer. Analytes are transferred to the GC/MS system using split- or splitless thermal desorption, or even multidesorption mode enabling ultra-low limits of detection.



GERSTEL Universal Syringe Module USM

The GERSTEL USM is a universal syringe module for liquid syringes ranging from 1 to 1,000 µL total volume. Given the extended volume range, most application requirements can be met without changing syringe modules, saving both time and money – and reducing the risk of error. The USM is compatible with the GERSTEL Gripper enabling automated performance of multiple sample preparation techniques. As an example, GC liners can be replaced automatically at a user defined frequency, using Automated Liner Exchange (ALEX). A further example is the automated thermal desorption of adsorbent tubes, solid samples such as polymers, or GERSTEL Twisters in the Thermal Desorption Unit (TDU).



MPS robotic benefits

Multifunctional, flexible autosampler

- Autosampler for all sample introduction techniques: Standard liquid introduction, Headspace (HS) and SPME
- Modular expansion enables simple adaptation to future analytical needs
- Reliable results thanks to optimized discrimination-free transfer of analytes using fast injection in combination with hot split/splitless inlets

Universal Syringe Module USM

- One unified syringe module for liquid injection syringes ranging from 1 to 1,000 µL
- Future proof, only the GERSTEL USM is compatible with the GERSTEL Gripper, enabling a multitude of sample preparation techniques

Proven MAESTRO Software control

- Unified control of the MPS robotic and all GERSTEL modules
- Simple and reliable method generation and –set-up thanks to intuitive handling concept and context-sensitive interactive Help function

New Member of the MPS family

- Sample preparation platform of the future, long term availability of modules and accessories is guaranteed safeguarding your investment

Extended Robotic Functionalities of the MPS robotic^{pro}

- µL-Injections performed even from very small sample volumes using Bottom Vial Sensing
- Maximum Flexibility: Automated change of two or more syringe modules in a running sequence enables the combination of liquid, HS and SPME sample introduction in one automated method and sequence
- Added reliability of complex sample preparation procedures thanks to power feedback for every movement of the sampler

Optimized Tray Design

- Higher sample capacity thanks to extended sample trays
- Flexible use of different vial sizes: Up to three different tray types can be placed in every tray holder
- Extended Headspace and SPME sample capacity: Optimized honeycomb-style tray design for 10- and 20 mL vials and extended sampler reach increases throughput by >50%



Automated Liner EXchange (ALEX)

In combination with the Automated Liner EXchange (ALEX) option, the MPS can automatically replace GC inlet liners. ALEX provides cleaner chromatograms and correct analysis results even when analyzing samples with a significant amount of solid matrix such as QuEChERS extracts or cellula material analyzed for metabolomics research.



Highly productive automated sample preparation and sample introduction for GC/MS and LC/MS

GERSTEL MultiPurpose Sampler MPS

• Proven and reliable technology

The GERSTEL MPS has proven its worth in industry, contract laboratories, government agencies, and in academia world-wide. The MPS provides highly efficient automated sample preparation and sample introduction for GC/MS and LC/MS.

• Best possible productivity

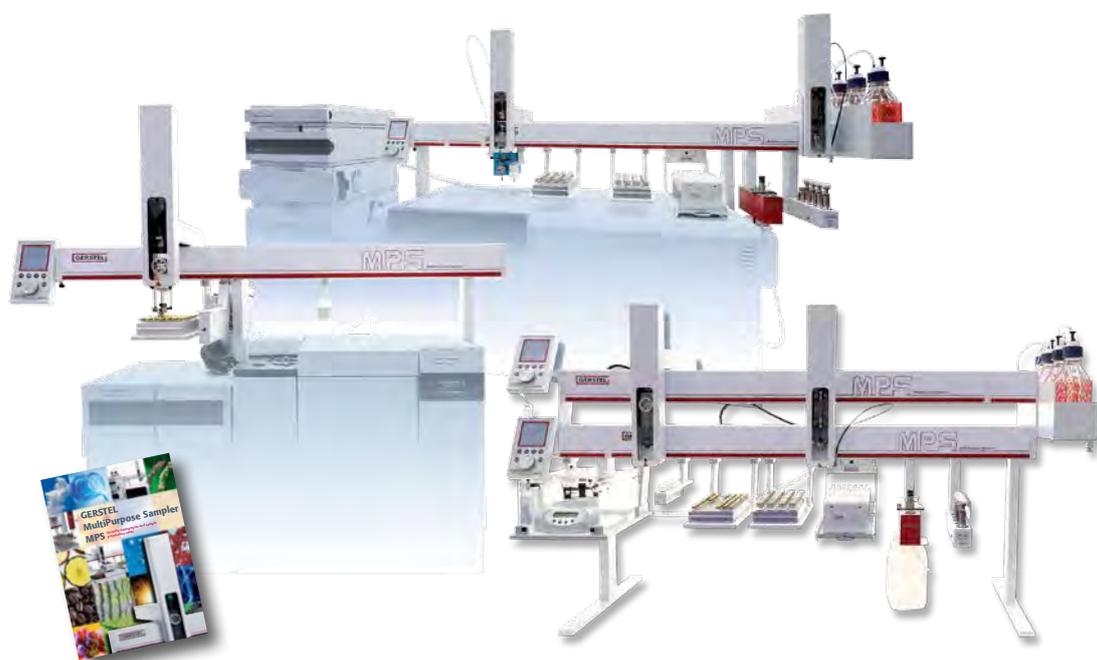
Thanks to intelligent synchronization, sample preparation and chromatography are performed in parallel. Whenever your analysis system is ready, the next sample has been prepared and is ready to be injected. This ensures that your analysis system is never idle, always utilized to full capacity for best possible productivity and return on investment.

• Intuitive operation

The GERSTEL MAESTRO software lets you operate your MPS by mouse-click whether it is operated independently or integrated with the analysis system. MAESTRO operates fully integrated with the Agilent® ChemStation® or GC MassHunter™. One method and one sequence table control the complete system from sample preparation to GC/MS or LC/MS analysis. MAESTRO operates integrated with the sequence tables of Agilent LC MassHunter™, AB SCIEX® Analyst® and Thermo Fisher Scientific® Xcalibur™.

• Maximum flexibility

The MPS lets you automate a wide range of standard or special sample preparation technologies. The MPS is easily and quickly adapted to the task at hand.



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