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Robotic System for Automated Sample Preparation: FREESTYLE

# Robotic System FREESTYLE

## FREESTYLE

### Automated Sample Preparation and Analysis

The FREESTYLE system is probably the most adaptable robotic equipment for sample preparation on the market. With this almost universally applicable system range, numerous processing steps can be automated.

As an example automation suits ideally in the areas of food, animal feed, environmental, and forensics analysis conducted in pharmaceutical laboratories or other fields of application.

The FREESTYLE system takes on daily routine tasks in the laboratory, but also offers users a unique opportunity to combine specific working steps that were previously carried out individually.

Day and night and even over the weekend.



*FREESTYLE system with SPE module, EVAporation module, GPC module, and racks*



## Flexible Configuration and Combination

The FREESTYLE modules can be individually combined and retrofitted. The user obtains the opportunity to adapt the FREESTYLE to the changing requirements of his everyday work, and the system can be upgraded to cater for newly required functions at any time.

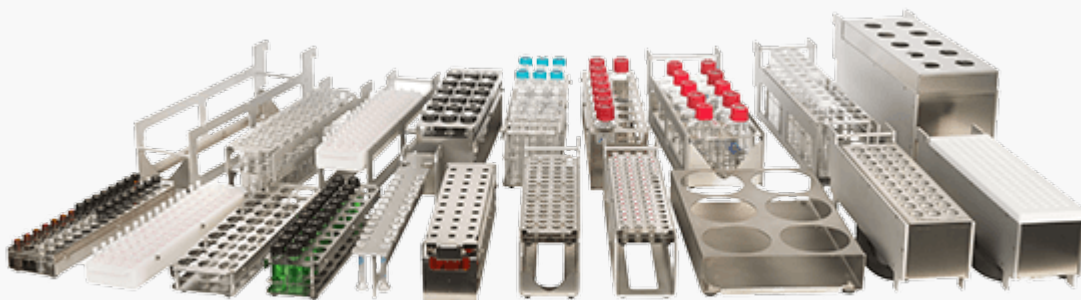
If different modules are installed, e.g. the SPE module together with the EVAporation module, these functions can be used individually or in combination. The required function is determined exclusively through method selection in the software.

Methods are saved, and can be called up at any time or mixed in sample lists. There is no need for any mechanical changes or conversions.

## Many Racks, Plenty of Choice

A broad range of racks is available. All racks are already integrated in the system software and therefore quickly selectable.

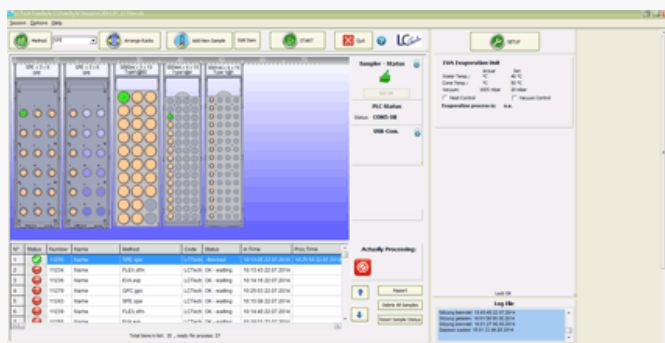
Due to reusable adapters all known SPE standard columns can be used in one single universal rack. Different formats can even be mixed within the same sample sequence.



## The Core of the System: the Software

All FREESTYLE modules come with the same user interface, thus the system can be expanded with new modules by a simple mouse click. The operation of the software is very easy and intuitive through drag & drop. Manual methods can be transferred directly to the system. Already defined methods can be saved and reused or modified afterwards.

A prioritisation of urgent samples is possible at any time, even during operation.



Main Screen



## FREESTYLE Brochure

Automated sample preparation - intelligent system solution (pdf | 2,7 MB)

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### The Base

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#### FREESTYLE BASIC

The FREESTYLE BASIC is the basic building block that will be equipped with the necessary modules suitable for the intended purpose. It consists of xyz-robot including injection pump, sample loop, solvent distribution, and double-walled needle.

[Read more ...](#)

### Automated Solid Phase Extraction

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#### FREESTYLE SPE

SPE module for all methods in the area of solid phase extraction. Due to controlled pressure application of up to 4 bar even viscous samples or samples containing suspended matter can be pushed through the SPE column.

[Read more ...](#)

### Automated EVaporation

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#### FREESTYLE EVaporation

EVaporation module for the automated concentration of solutions similar to the rotatory evaporator principle and / or blowing off with nitrogen to a defined end volume between 5.0 mL and 0.2 mL.

[Read more ...](#)

## Automated Gel Permeation Chromatography

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### FREESTYLE GPC

GPC module for automated gel permeation chromatography (clean-up). In combination with the EVaporation module, the samples are prepared with or without solvent exchange and presented in GC-vials ready for the subsequent analysis.

[Read more ...](#)

## Fully Automated Mycotoxin Analysis

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### FREESTYLE ThermELUTE™

ThermELUTE™ module for the highly automated analysis „from extract to the chromatogram of aflatoxins and ochratoxin A in all regulated matrices with highest sensitivity – ppt instead of ppb.

[Read more ...](#)

## The Step Towards Full Automation

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### FREESTYLE HPLC Direct Injection

The FREESTYLE HPLC Direct Injection module enables the complete automation from raw extract to the chromatogram without any manual working step. The sample can be injected directly from the EVaporation chamber into the HPLC sample loop.

[Read more ...](#)

## Residue Analysis in Food and Feed

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### FREESTYLE QuEChERS

A automated QuEChERS method for difficult dried matrices, like tea or spices, and standard matrices, like fruits or vegetables. This non-dispersive procedure stands out due to its fastness, simplicity, and competitive pricing.

[Read more ...](#)

## Sample Preparation for Water Analysis

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### FREESTYLE XANA

Automated sample preparation for sample volumes from 1 L up to 10 L. From raw sample up to filling into GC vials: automated, reliable, around the clock. High sample throughput due to parallelisation of the process steps.

[Read more ...](#)

## Automated PFAS Determination

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### FREESTYLE SPE (XANA) PFAS

We also offer FREESTYLE SPE and FREESTYLE XANA as system containing hardly any fluoropolymers in the form of plastics. This means that all material in contact with the sample is virtually free of substances that could affect the low blank values required in the analytics.

[Read more ...](#)

## Racks

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### Overview of the FREESTYLE Racks

Depending on the applied application, the FREESTYLE system can be equipped with a suitable rack. A variety of different racks is available.

[Read more ...](#)

## Accessories

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### Even more FREESTYLE

We offer for the FREESTYLE system different accessories to enlarge functions of the instrument or to facilitate the work additionally.

[Read more ...](#)

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