

OMNIS

SAMPLE ROBOT



A GAME CHANGER

Breaking the limits of all existing automation solutions for titration: The OMNIS Sample Robot allows you to increase sample throughput to new levels, expanding a modular platform. Save bench space, enjoy unique flexibility, and benefit from unmatched performance!

FASTER I

Analyze up to 175 samples completely unattended

Modular automation with OMNIS means: Start with the OMNIS Sample Robot S (two racks, up to 50 samples), scale it up to an OMNIS Sample Robot M (five racks, up to 125 samples), and ultimately analyze up to 175 samples completely unattended on seven racks with the OMNIS Sample Robot L!

FASTER II

Save up to 60% in time

Your OMNIS Sample Robot accommodates up to four workstations (plus two workstations for liquid handling). Use them to perform up to four titrations in parallel and save 60% of time compared to performing the same application on a stand-alone system. With OMNIS, you can consolidate and automate all your titration applications on a single platform!

FASTER III

Performance without interruption

Assign your titration applications to dedicated workstations of your OMNIS Sample Robot and keep a perfect overview. When your OMNIS Sample Robot has finished analyzing the samples on a particular rack, simply exchange it while the system keeps working – uninterrupted.





OMNIS Sample Robot S

- Up to two Pick&Place Modules
- Up to four pumps on a single Pump Module
- Max. 50 x 75 ml on two sample racks
- Up to two titrations in parallel





OMNIS Sample Robot M

- Six slots for workstations in total
- Max. 125 x 75 ml on five sample racks
- Up to four titrations in parallel





OMNIS Sample Robot L

- Six slots for workstations in total
- Max. 175 x 75 ml on seven sample racks
- Up to four titrations in parallel



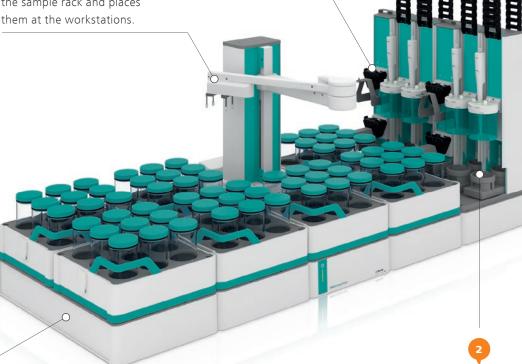
Two workstations (Pump Modules)

For addition of auxiliary solutions or automated cleaning of the electrode between titrations



Jointed robotic arm

Picks sample beakers from the sample rack and places them at the workstations



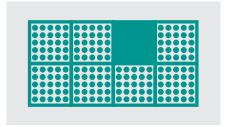


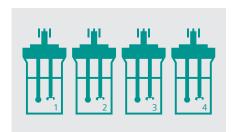
Up to seven sample racks (OMNIS Sample Robot L)

OMNIS automatically identifies individual sample racks wherever they are placed on the OMNIS Sample Robot.



For parallel titration of up to four samples







01

Faster I: Analyze up to 175 samples completely unattended.

07

Faster II: Perform up to four titrations in parallel and save up to 60% of time.

03

Faster III: Replace sample racks with already analyzed samples while the system keeps working uninterrupted.

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TECHNICAL SPECIFICATIONS

| Dimensions with workstations mounted | | | | |
|---------------------------------------|---------------------------|----------|--|--|
| Device | Height x depth x width | | | |
| Sample Robot S | 758 mm x 604 mm x 559 mm | | | |
| Sample Robot M | 758 mm x 563 mm x 1161 mm | | | |
| Sample Robot L | 758 mm x 563 mm x 1441 mm | | | |
| Weight of the Sample Robot components | | | | |
| Sample Robot S | Without workstations | 19.00 kg | | |
| Sample Robot M | Without workstations | 26.49 kg | | |
| Sample Robot L | Without workstations | 31.69 kg | | |
| Pick&Place Module | Without stirrer | 3.82 kg | | |
| Pick&Place Module | With stirrer | 3.92 kg | | |
| Pump Module | 2-channel | 4.10 kg | | |
| Pump Module | 4-channel | 5.10 kg | | |

MAXIMUM SAMPLE LOAD

| Sample beaker volume | Sample Robot S on 2 sample racks | Sample Robot M on 5 sample racks | Sample Robot L on 7 sample racks |
|----------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 75 ml | 50 | 125 | 175 |
| 120 ml | 32 | 80 | 112 |
| 200 ml | 18 | 45 | 63 |
| 250 ml | 18 | 45 | 63 |

MAXIMUM NUMBER OF WORKSTATIONS

| Sample Robot type | Max. number of Pick&Place Modules | Max. number of Pump Modules |
|-------------------|--------------------------------------|--------------------------------|
| S | 2 | 1 |
| M | 4 | 2 |
| L | 4 | 2 |