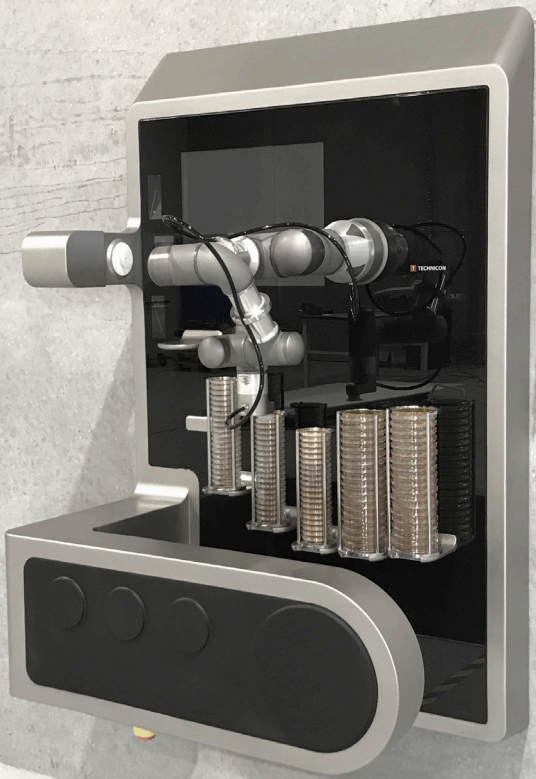


# NEWLY DEVELOPED ROBOT SOLUTION FACILITATES COLLECTION OF SAMPLES IN CLEANROOMS



In the pharmaceutical industry, high hygiene, frequent and effective tests have always been the prevailing practice. So far, gloves and suits have been sampled manually.

As the individual employee cannot take tests on himself, manual testing has taken up two employees' time: colleague A to be tested and colleague B to perform the test on colleague A's glasses, mask, collarbone, forearm and fingertips. It is always highly educated and trained key employees who have spent time on sampling.

A newly developed flexible automation solution eliminates the time- and resource-intensive manual processes and at the same time ensures uniformity in sampling. Automating the process increases capacity because employees avoid the many daily sampling and database registrations.

The automated sampling facilitates everyday life and gives employees a better opportunity to perform more value-creating tasks.

## The Technicon Solution Strengthens

# The Degree of Automation

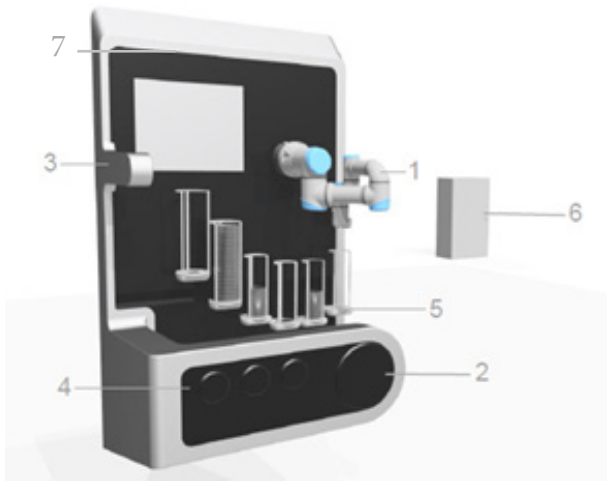
## The Pharmaceutical Industry

### USER-FRIENDLY SOLUTION SAVES TIME AND RELIEVES

In close collaboration with the company, Technicon has developed a unique and hygienic robot solution that, for the first time, enables automated testing of employees' suits and gloves.

“ We have had a super good collaboration with Technicon. They have managed to elevate our ideas and thoughts to a system that we think looks good and where the interface is simple and easy to understand. Technicon has also shown flexibility in getting a lot of details examined and optimised, so today we have a solution we are all proud of and which works as intended. ”

Automation & Robotics Specialist



1. Universal Robots UR3e Robot that performs safe sampling
2. A powerful RFID scanner ensures easy scanning of the individual employee's ID card
3. Three barcode scanners work together to form a system for fast barcode scanning
4. Three proximity buttons are used to interact with the robot
5. The system has six holders for placement of diffusion plates
6. The control cabinet is placed externally outside the clean room. It facilitates access
7. HMI for guiding the employee during sampling

### ENSURES UNIFORM COLLECTION

The innovative solution consists of a wall-mounted collaborative robot that automatically ensures uniform collection of samples of the gloves and suits used in classrooms A and B.

The robot solution has been developed with high safety, user-friendliness and hygiene in mind, and the hidden cabling that goes backwards into the wall ensures high ease of cleaning.

### ADAPTS TO THE HEIGHT OF THE INDIVIDUAL EMPLOYEE

When the individual employee is to be tested in one of the company's clean rooms, he scans his ID card. The identification means that the robot knows the person's preferred presentation height. This always results in an ergonomically optimal test of the individual person.

The employee no longer has to kneel or bend often: the robot adjusts the test height to suit the person. Not the other way around.

The robot solution's intuitive user interface guides the operator through the steps in the testing process, all the while the robot ensures high test integrity.

The test process is based on the control system's time measurement and force measurement via the robot's built-in force sensor. This ensures consistent quality in the samples.



### THE CUSTOMER'S BENEFIT

- The degree of automation at the company is strengthened and the daily testing of gloves and suits is facilitated
- The company frees up employee resources, which increases flexibility and competitiveness
- The extent of typing errors and time-consuming examinations is reduced. The company saves the time spent investigating possible manual typing errors
- The robot solution reduces the workload associated with employees having to repeatedly test colleagues at different heights