

ABL 800 FLEX

Rapid and correct blood sample processing is vital to be able to diagnose and treat patients in a timely manner. At the same time, it is crucial that tests are accurate and are constantly of the highest quality.



It requires standardized procedures so that uniform results are obtained and the individual blood samples can be analyzed without delay.

The **ABL800 FLEX** blood gas analyzer is capable of measuring up to 18 different parameters and provides high analytical performance in the central laboratory of many hospitals, where the instrument analyzes incoming samples from the individual departments.

Several of the steps normally associated with blood gas testing are highly automated when using the **ABL800 FLEX** analyzer. With the increase workload at the hospitals the desire for automation arises especially in relation to the blood sample processing.

SOLUTION OVERVIEW

The cobot handles the manual processes

In these cases, these are repetitive functions that may be advantageously automated and streamlined.

ABL800 FLEX is a highly automated stand-alone solution, where a compact and reliable UR3e cobot from Universal Robot, with a lifting weight of 3 kilos and a range of 500 mm, automatically enters and performs the blood tests.

Cobots from Universal Robots are often used in the medico and pharmaceutical industry, as they are developed with a special focus on ensuring stability, flexibility and safety.

For example, a cobot stops immediately if it encounters resistance, and therefore space consuming safety shielding is not necessary. This makes it optimal for automatic performing of task in areas where space is tight, hygiene requirements are high and where employees move.



User-friendly cobots at the core

At the same time, a cobot from Universal Robots is user-friendly. It is easy to use and with the intuitive user interface and the advanced software and hygienic grippers developed for the medical industry, it provides a wide range of tasks, that several employees can handle easily and simply.

In this case, the ambition is for the UR3e solution to take test tubes from a tray or a dedicated stop, possibly remove the cap, register the sample, hold the test tube during aspiration on the **ABL800 FLEX**, and when the analysis is completed, return the test tube to the tray for completed or incomplete samples.

The purpose of the automation is not solely to minimize ergonomic challenges. The solution must also free up resources, and instead of employees performing repetitive tasks with wasted and waiting time as a result, the employees can in future concentrate on other and more value-creating tasks.

The intention of shorter and more correct response time is also one of the main purposes. Therefore, the ambition is for the solution to reduce the waiting time before the sample is placed and analyzed by the **ABL800 FLEX**.





Modular solution with scaling options

No two employees, hospitals or laboratories are totally alike. Technicon's robot solution is modular and thoroughly tested. In connection with the distribution, this ensures that customers are not forced into a one-size-fits-all solution.

The desire is for Technicon's automation solution to be scalable, so that you can gradually get automation into everyday life at the pace and scope that exactly fits the specific needs and competence level of the hospitals, laboratories and staff in question.

RAPID AND CORRECT BLOOD SAMPLE PROCESSING



TECHNICON CASE

Solution Benefits

- + Diagnostic tests in a timely manner
- + Automation and streamlining of the process
- + Easier everyday life and improved working environment
- + Increased operational reliability
- + Ensures that employee resources are used for more value-creating tasks