



SUCCESS STORY LIFE SCIENCE

Economic automation for hospital pharmacies

Challenge

Safe filling of syringes and IV bags

Every day, a hospital pharmacy puts together hundreds of doses of medication for administration to patients. To improve the quality of such a delicate task and at the same time to protect clinic personnel from the risks of skin contact with possibly toxic preparations, the Canadian supplier Intelligent Hospital Systems has developed a robot-supported system which can fill syringes and infusion bags with any dose of medication.

Solution

Completely reliable dosing of medication

The RIVA system is designed to be flexible and can handle commonly available medication bottles, disposable injections and infusion bags of different sizes. It can switch between single doses for a specific patient and a large number of identical bulk-produced preparations.

Customer benefits:

- Fully reliable and precise medication dosing
- Very flexible in application
- No health risk to clinic personnel through skin contact with potentially toxic preparations
- Small space requirement thanks to the compact design of the robot
- Superior efficiency and economy

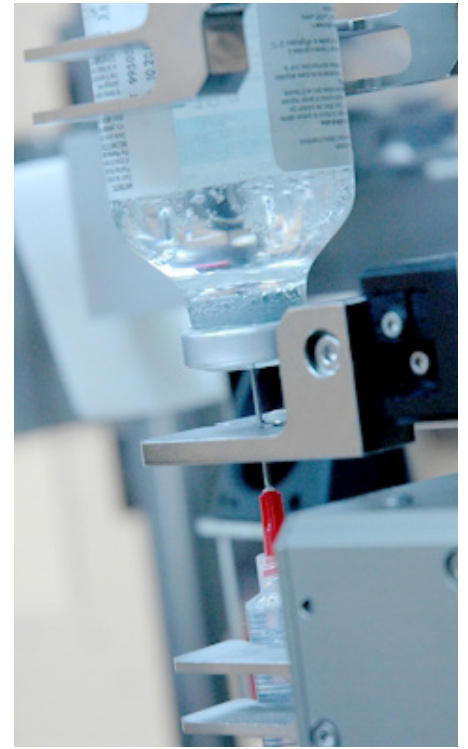


A TX60L cr ensures safe and accurate individual dosing of medication.



A high-precision Staubli TX60L cr cleanroom robot fills syringes and infusion bags with any dose of medication. The robot, which is fully encapsulated with minimal surface area, making it particularly suitable for cleanroom use, is accommodated with its peripherals in a cell of just 4.5 m².

It takes the bottles and syringes from hoppers in the cell with an electric Schunk gripper, draws the required dose at the intake station and ejects the labelled syringe via a shaft. Alternatively, the dose can also be put into an infusion bag. The robot can also work with powdered medication. Liquid added to



the bottle with the powder to dilute it and the bottle is then agitated at a mixing station before the now fluid medication is drawn up into the syringes.