

## CASE STUDY

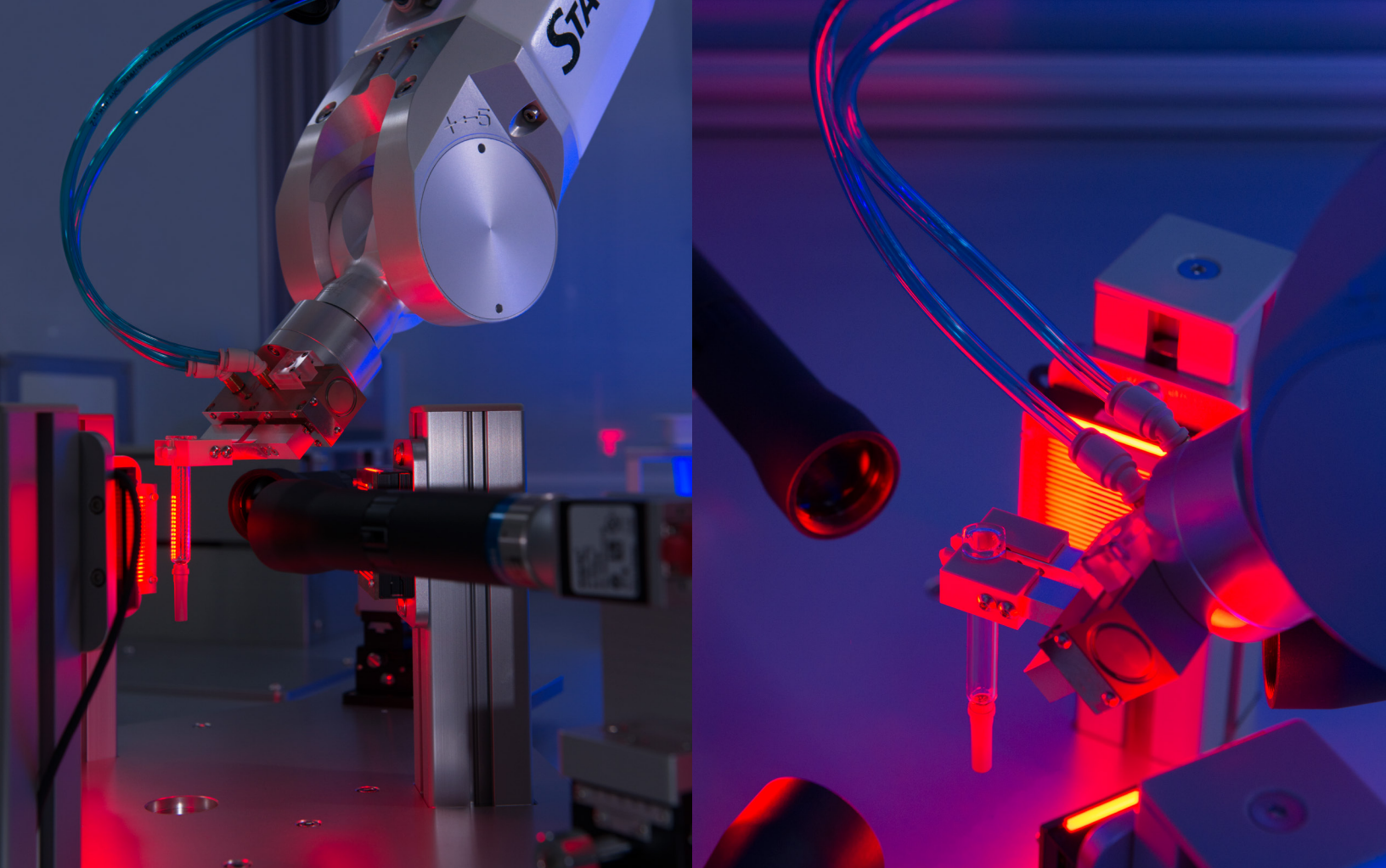
### SPECIALIZED PROJECT & TECHNOLOGY TRANSFER LABORATORY EQUIPMENT & AUTOMATED SYSTEMS

## RAMP-UP FOR SERIAL PRODUCTION

A US-based company dedicated to developing intelligent inspection solutions and equipment for the biotechnology, pharmaceutical, and medical device industries wanted to partner with an established manufacturer, possessing design and engineering capabilities as well as appropriate in-house quality systems. With lab equipment that finds defects in medical syringes, vials, cartridges, test tubes, and other medical containers, it was vital for the manufacturing partner to have ISO13485 and ISO9001 quality systems in place.

After carefully evaluating the potential candidates, this laboratory equipment company chose SHL Technologies as their design and manufacturing partner. One of the important factors that led to this decision was the extensive design and engineering capabilities SHL Technologies possessed in-house. This includes Molding, CNC Machining, Metrology, Automation and Assembly, all of which are operated under high quality manufacturing conditions with state-of-the-art manufacturing equipment. Another key factor was SHL Technologies' established ISO13485 and ISO9001 quality systems, which are monitored internally and audited by 3rd party certified bodies.

As a manufacturing partner, SHL Technologies is responsible



for the applied design, industrial engineering, and production ramp-up followed by serial manufacturing while the conceptual design and prototyping activities of equipment and software is taken care by the original company. The success of the project is driven by close collaboration of project team members and engineering personnel from both companies.

The range of inspection equipment manufactured includes benchtop solutions for laboratory testing, robotics-aided equipment for pilot production and ramp-up, as well as fully automatic, high throughput continuous motion equipment for mass production. With this full range, the US-based innovative test and inspection equipment company can robustly tailor to the syringe and cartridge inspection demands from the industry, and by partnering with SHL Technologies, offer scalable solutions.