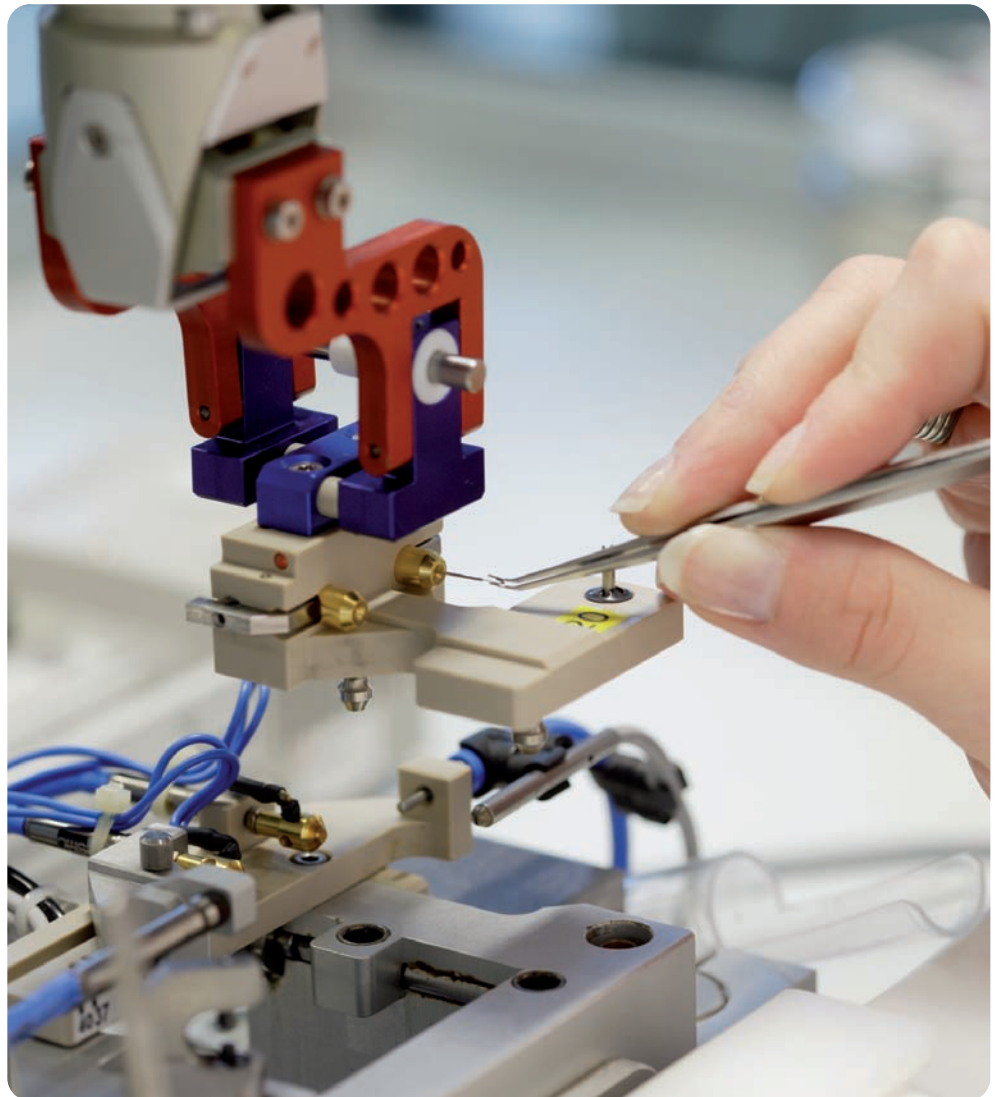




Case study
Small Component Assembly



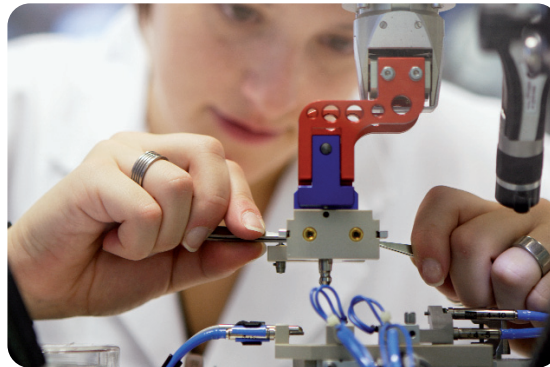
Katana – Automation made easy

Heating coil adjustment – optimisation of a core process with Katana

The task: Adjustment of heating coils to a specific resistance value. The coils are subsequently fitted in Pirani sensors (used to measure total pressure in a vacuum). The adjustment process involves mounting them on wire supports at a workstation. The solution: Productivity and quality levels in this process, which is absolutely critical to Inficon's business, are reaching previously unattainable levels, thanks to an optimum combination of human expertise in assembly and the flexible, precise automation delivered by Katana.

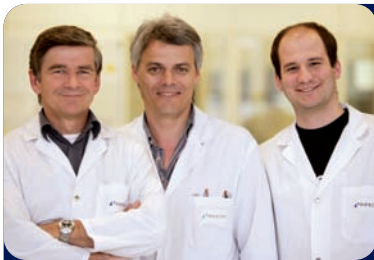
Starting point

The re-engineered process was designed to achieve a number of objectives – improved ergonomics, better protection for employees and higher levels of productivity, as well as more open functionality of the workstation – and involved analysis of a variety of alternative approaches. The only constant was the presence of the assembler, on the basis that human expertise and knowledge are indispensable because of man's skill in handling the delicate heating coils (0.008 mm in diameter) and his ability to make informed adjustments in critical operations.



Benefits/Advantages

- An increase in productivity of over 25%
- The highest quality standards thanks to In-Process-Control
- Maximum process reliability using redundant systems
- Safeguarding expertise
- Further potential for expansion and optimisation



G. Caduff/W. Fuchs/J.Gabathuler
Inficon, Balzers

«We would do exactly
the same again.»

Inficon is a leading developer, manufacturer and supplier of instruments, sensor technology and process control software for the semiconductor and vacuum coating industry.

Choose Katana

- Simple implementation and handling
- High level of product quality and flexibility
- Results of the cost/benefit analysis
- Unique man-robot collaboration
- Flexible and speedy service offered by Neuronics
- Easy-to-adapt, customer-specific grippers

Your Neuronics agent

In addition – Katana can also help you with:

- Assembly of medical technology products
- Assembly of electrical components
- Sensor and sensor component handling
- Component handling in automated assembly systems

**The flexible assistant for industrial production,
assembly and quality control.**



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