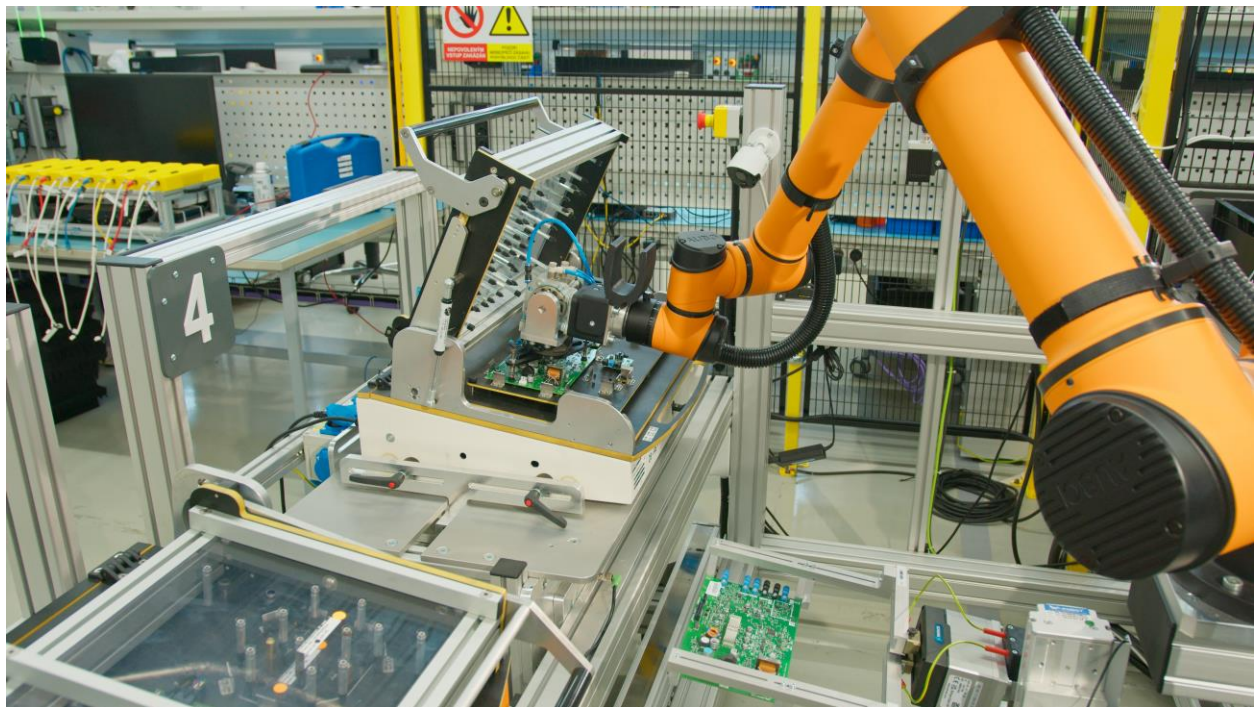


# Innovative PCBA Testing Automation at BTL with Test-it-off

**BTL Medical Technologies**, one of Europe's leading manufacturers of medical equipment, automated a part of its PCBA testing with the **Test-it-off** platform from **KINALI** to overcome the shortage of skilled testing operators and improve testing efficiency.



Producing around **400,000 PCBAs annually**, BTL operates in a **High-Mix, Low-Volume** environment where flexibility and precision are essential. Manual testing limited throughput and scalability, while frequent product changes required constant reconfiguration. To address these challenges, BTL implemented the modular **Test-it-off** platform, which automates testing, reduces manual handling, and enables autonomous operation.

The system can run **unattended for up to six hours**, integrates with existing **ICT and FCT testers**, and provides **real-time reporting and full ERP/MES connectivity** for complete traceability. With **fixture staging on mobile trolleys**, changeovers take less than **10 minutes**, and new product introductions are done easily via a **no-code interface** that guides operators step by step.



**Results:** BTL achieved faster changeovers, shorter NPI times, and higher testing consistency while reducing operator dependency across shifts. The solution delivers stable 24/7 testing capacity, improved traceability, and measurable cost savings, strengthening BTL's competitiveness and readiness for future growth.

Read the full case study here: <https://www.testitoff.cz/en/case-studies/how-btl-optimized-pcba-testing-with-test-it-off/>

**Visit us in Hall A1, Stand 434**

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