

INVERT ROBOTICS | DXC TECHNOLOGY

RoboScan: Precision and Safety in Automated Defense Manufacturing

DXC Technology and Invert Robotics enhance manufacturing safety with automated inspection and data capture via robotic crawlers.

THE CHALLENGE

For our client, welding is a significant contributor to production costs, encompassing both human welding and quality control. Currently, welding quality checking is done by hand, which is expensive and requires labor in an unsafe setting. Assisting the client in their global quest for a technological fix, DXC conducted a business case study and technological scouting. The study highlighted the necessity of automated inspections in order to improve accuracy, streamline the procedure, and—above all—protect human inspectors from dangerous surroundings.

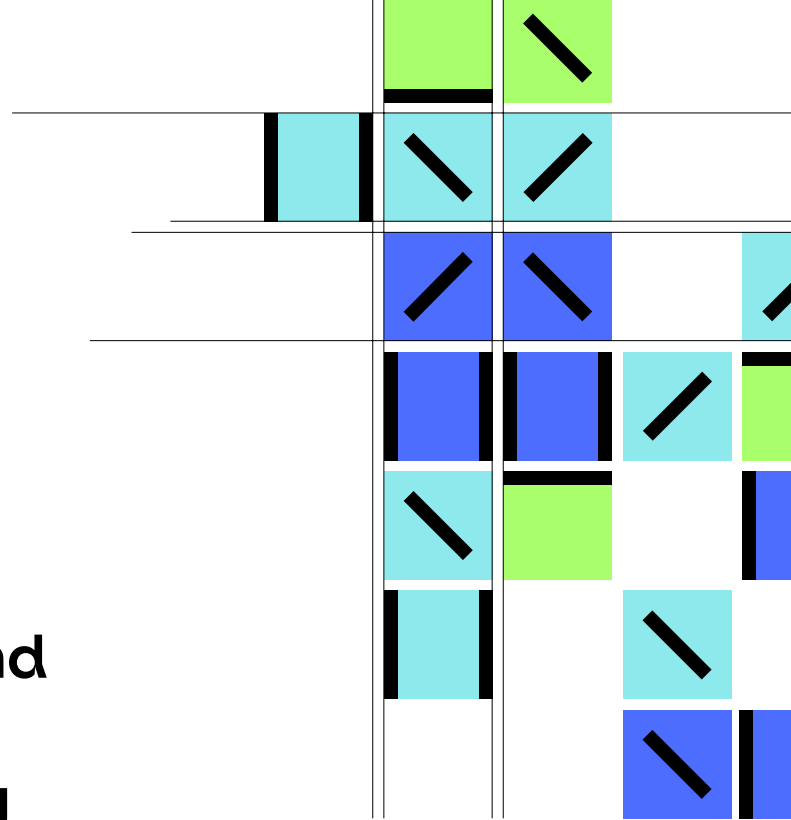
THE SOLUTION

The technological scouting team discovered Invert Robotics, a global leader in Robotic Non-Destructive Testing (NDT) and Robotic Inspection Crawling Systems with a focus on non-magnetic surface navigation robots. An NDT robotic scanning solution has been developed by ABC, a renowned defense company and IRX, specifically for their military assets. In less than three months, Invert Robotics was able to provide a complete automated inspection solution by combining their Robotic Crawler with cutting-edge image technology.

THE OUTCOME

This innovative technology is now operational in actual production assets, offering digitized inspection solutions that not only reduce inspection times but also eliminate the need for humans to perform risky procedures. In addition, the company is now able to automatically record and document NDT data. The automated documentation of NDT data in particular saves an enormous amount of time and significantly reduces the effort for the customer.

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INVERT ROBOTICS

WEBSITE

invertrobotics.com

FOUNDED

2010

HEADQUARTERS

Dublin, Ireland

NO. OF EMPLOYEES

10–50



Invert Robotics safely inspects assets using no human entry Robotic Inspection Technology.

Invert Robotics's solution eliminates the risks of human entry into confined spaces and provides accurate asset inspections by offering robotic, data-driven NDT inspection technology.

ABOUT STARTUP AUTOBAHN

STARTUP AUTOBAHN powered by Plug and Play is an open innovation platform that provides an interface between innovative tech companies and industry-leading corporations. The basis of the program is the partnership that develops between startups and the corporate business units. The two entities hold an equal footing from the get-go: together they evaluate the potential for a joint venture, move forward to pilot the technology, and work to achieve the ultimate goal – a successful production-ready implementation. Designed with the intention to exceed startup acceleration, STARTUP AUTOBAHN powered by Plug and Play moderates a community for collaboration with a focus on implementable results. Over the years, the platform has successfully cultivated over 400 projects with more than 300 startups since its founding in 2016.

ACKNOWLEDGEMENTS

We would like to express our sincere thanks to Jürgen Friedrich (DXC) and Timothy Black (Invert Robotics).

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