FlexBotNDT











PROBLEM/ISSUE ADDRESSED

Automation of the NDT scanning process for large parts – Relieving operators of the tiresome, time consuming and monotonous work – allowing him/her to focus on data interpretation

SOLUTION

Human Robot Collaborative (HRC) system that can accurately perform the delicate scanning process and be programmed interactively to accommodate multiple part types.

WHY IT IS IMPORTANT FOR SOCIETY

Collaborative robots provide physical assistance and enhanced operator work environment. They are able to:

- increase the attractiveness of the job and promote the wellbeing of the manufacturing personnel.
- increase accessibility of the job since the demanding part is handled by a robot and the worker can focus on interpreting the acquired data.

Thanks to EIT we were able to bring together the right competences to automate a traditionally manual, costly and difficult process...



MAIN RESULTS & INSIGHTS



HRC system and custom NDT end effector integrating scanning probe and coupling media application



Intuitive programming interface optimized for human robot interaction



3D radar system for safe human detection and HR collaboration



SOTIRIS MAKRIS
Head of Robots, Automation and Virtual
Reality in Manufacturing group at LMS
MAIN PRODUCT
FlexBotNDT project
AIM: Flexble non-destructive-testing using





