What is COROB about?

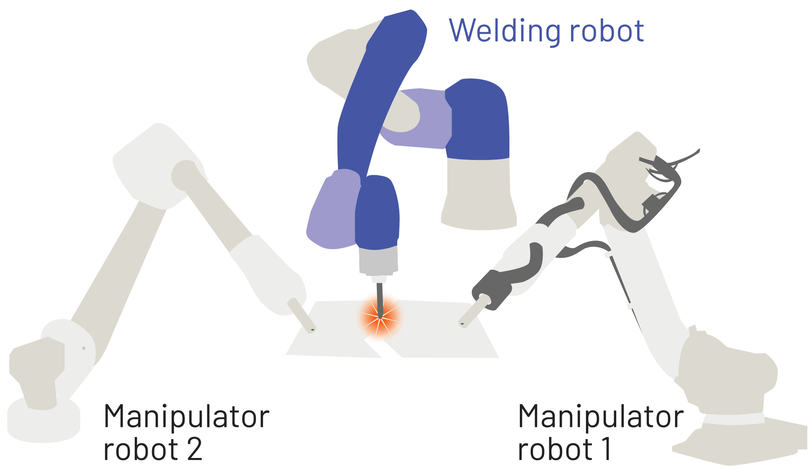
COROB develops a flexible, cooperative and intelligent multi-robotic solution powered by Inspection, Monitoring, Control and AI techniques that will increase the efficiency and improve the flexibility of industrial processes.

USE CASES

USE CASE 1

Multi-robot cooperative welding

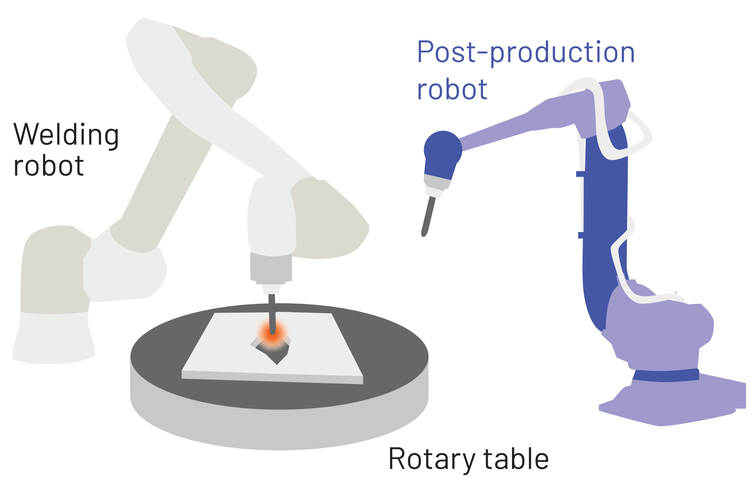
This use-case will focus on a cooperative multi-robot system for flexible manufacturing. The welding process will be performed using jigless robotic approach, defined as robotic welding without tools/jigs in which two manipulator robots hold and present the workpieces to one welding robots.



USE CASE 2

Multi-robot cell for tooling repair using WAAM

This use case will deploy a multi-robot cooperative robotic cell for repair of tooling. The main robot will be the processing robot, equipped with a WAAM arc-welding head as an end effector, taking care of the repair tasks. Together with a 2-DoF rotary table, it will constitute an 8-DoF processing system, capable of repairing very complex geometries. Additionally, a smaller, auxiliary robot will be integrated in the cell and will be responsible for the auxiliary processing tasks. A core technology integrated in the robot will be 3D scanning, while other technologies (e.g. inspection, part treatment, finishing, etc.) will be examined through the Open call of the project.



OPEN CALL
APPLY NOW
AND RECEIVE
UP TO €150.000

Target applicants: Technology developers and integrators, including SMEs and Start-ups

Deadline to apply: 8 July 2024

APPLY NOW

Co-funded by the European Union

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