



CARLoS

Cooperative robot for large spaces manufacturing

www.carlosproject.eu

The major features of the CARLoS robot are:

- High mobility inside ship blocks
- Semi-autonomous decision-making on the work to do
- Autonomous stud welding capability
- Autonomous pre-outfitting marking capability
- Highly usable and easy controlled by a shipyard worker
- Skills-based programming

Project

CARLoS project aims to apply recent advances in cooperative mobile robotics, to a representative industrial scenario in shipyards. CARLoS robot will be built using off-the-shelf technology under a modular approach. The final prototype will be demonstrated as a robot co-worker for outfitting operations (stud welding and marking) inside blocks of ship superstructures. Currently, there is no automated solution to these tasks.

CARLoS project will contribute to strength technology and market position of:

- European SMEs that develop, supply, and integrate mechatronic, sensing, and electronic technologies for industrial applications.
- European SMEs providers of outfitting services to shipyards, as well as small shipyards.



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Project Coordination



Partners



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