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ColRobot: Collaborative Robotics for Assembly and Kitting in Smart Manufacturing - Demonstration in the Aerospace Industry

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Watch this video https://youtu.be/BbKqAB_gLfg ColRobot navigates autonomously on the factory floor to pick up parts, tools and prepare kits for assembly

ColRobot combines cutting-edge robot technology and end-user requirements for assembly processes to create an integrated system for collaborative robotics in which a mobile manipulator acts as a "third hand" by delivering kits, tools, parts, and holding workpieces while the operator works on it.

Humans will cognitively and physically interact with ColRobot using gestures, touch commands and demonstrations. The robot will be able to navigate autonomously on the factory floor to pick up the required parts and tools and prepare kits for assembly. A safety system that pushes the limits of standardization in collaborative robotics supervises the process.

The technology readiness level (TRL) will be scaled-up through continuous iterative testing (performance, usability, manufacturing relevance), validation and improvement. Two use cases in automotive and aerospace industry are being demonstrated in real-world operational environments. This video shows a demonstration in the aerospace industry.

The video has been produced by the ColRobot project funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No. 688807.

Find out more about @Col_robot at <u>https://colrobot.eu</u> and join our LinkedIn group: <u>https://www.linkedin.com/groups/8514731</u>

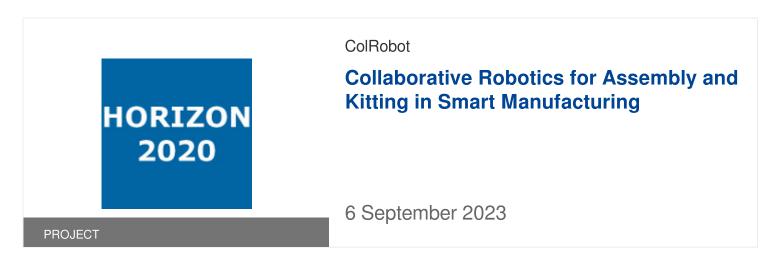
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