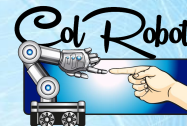


# D6.3

# ColRobot prototype in aerospace industry





## D6.3 ColRobot prototype in aerospace industry

<b>Project Acronym:</b>	ColRobot
<b>Project full title:</b>	Collaborative Robotics for Assembly and Kitting in Smart Manufacturing
<b>Project No:</b>	688807
<b>Call:</b>	H2020-ICT-2015
<b>Coordinator:</b>	ENSAM
<b>Project start date:</b>	February 1, 2016
<b>Project duration:</b>	36 months

<b>Abstract</b>	This deliverable describes the ColRobot prototype in aerospace industry
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### Document control sheet

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### Versioning and contribution history

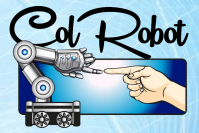
Version	Date	Revision Description	Partner
v.1	29/01/2019	First draft version	TAS
v.2	31/01/2019	Coordinator review	ENSAM

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COLROBOT demonstrator for WP6, has been tested according to 3 use cases identified in the specification [D1.1 COLROBOT functional specifications §2]:

- Kitting with screws and washers
- Equipment installation on satellite panel
- Assistance for transferring components

We achieved a TRL7 for the demonstrator. TRL7 definition is the following (from ISO 16290:2014): System demonstration in operational environment.

Qualitative objectives were identified in GRANT Agreement to demonstrate the collaborative robotic solution for assembly and kitting in space industry environment:

- To reduce labour costs by allowing workers to focus on complex tasks with high value added and leave repetitive tasks to robots.
- The robotic system can be instructed by non-experts in robotics.
- Reduce time the operators are exposed to ergonomically inconvenient work.
- To reduce production costs by removing feeders from working areas.
- Increase production flexibility using robot as a power tool.
- Reduce setup time.