



## Robot Companion

### INTELLIGENT INTERACTIVE COWORKER FOR THE FACTORY OF THE FUTURE

The Robot Companion is a demonstrator of intelligent interactive robotics focusing on industrial assembly tasks (for example the assembly of a representative gear unit). The system is composed of two collaborative robots, custom end-effectors, vision sensors, and a digital twin of the whole platform. In nominal mode, the robots work autonomously and assemble the different parts using dedicated skills. An interactive mode is also available, allowing a human operator to collaborate with the robots. An environment camera allows monitoring the operator's actions and adapt accordingly.



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## Key Features

- Dual robot platform
- Autonomous and interactive modes
- Franka and UR10e collaborative robots
- 2D and 3D vision sensors

## Possible Applications

- Manufacturing assembly tasks

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## Access information

<b>Corresponding infrastructure</b>	Commissariat à l'Energie Atomique Interactive Robotics Lab
<b>Location</b>	Plateau de Saclay, Boulevard Thomas Gobert, 91120 Palaiseau, France
<b>Unit of access</b>	Working day



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## Technical specifications

<b>DoF</b>	Franka: 7, UR10e: 6
<b>Load capacity</b>	Franka: 3kg, UR10e: 12.5kg
<b>Interface</b>	Internet
<b>Reach</b>	Franka: 855mm, UR10e: 1300mm

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