



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.



Key Features

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

Possible Applications

- Manufacturing assembly tasks

Access information

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



Technical specifications

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