

Educational cell

A robotic learning cell

Robot as IIoT (Industrial Internet of Things)



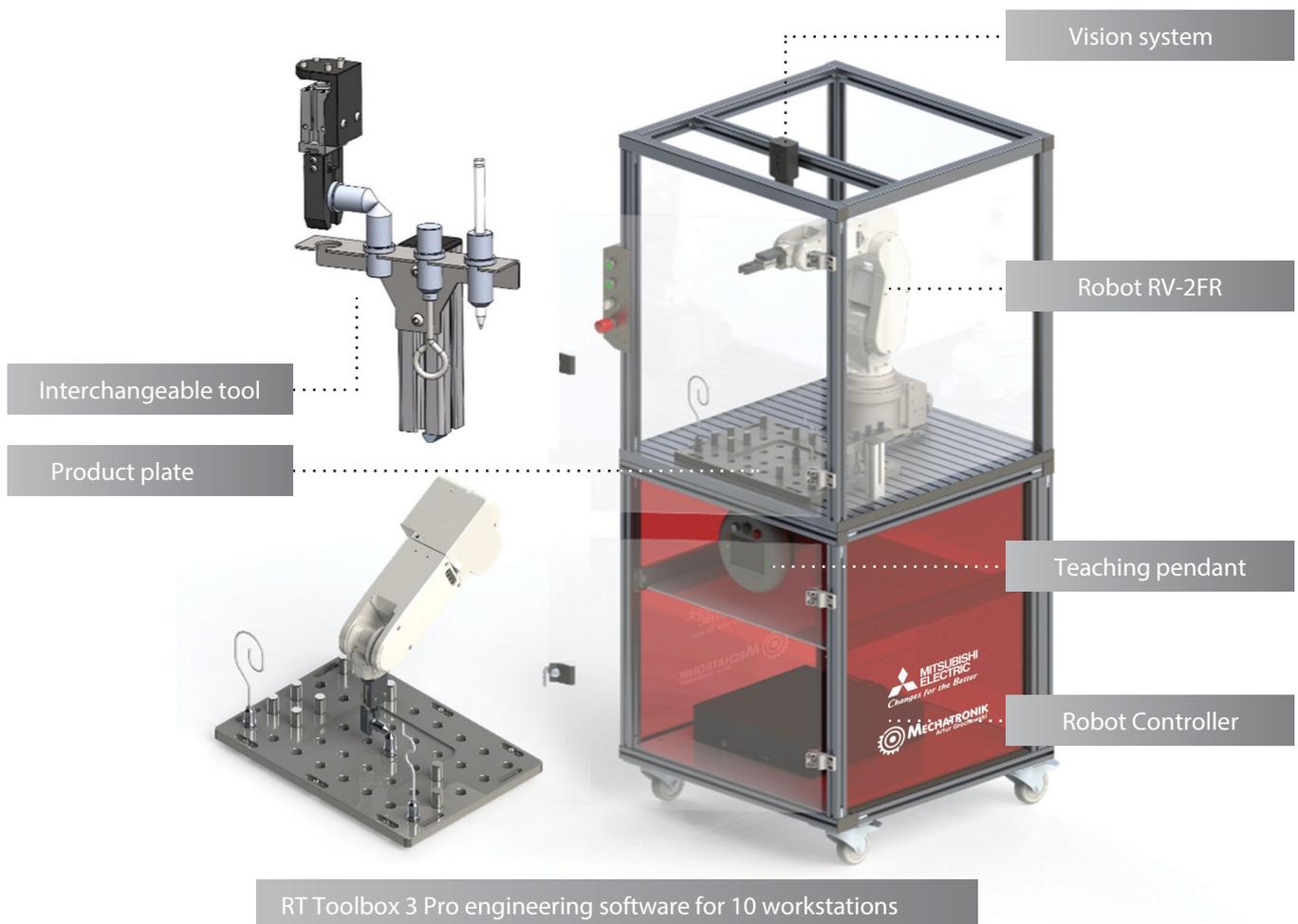
- Learning tasks mapping robotization in industry
- Cooperation and calibration of the robot with the vision system
- Possible extension with tools for predictive and preventive maintenance of the robot
- An introductory guide to working with the station
- Two-day station training

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Included with the station:



Technology tasks:

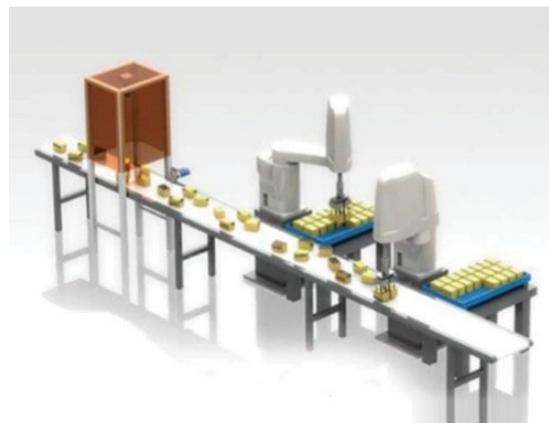
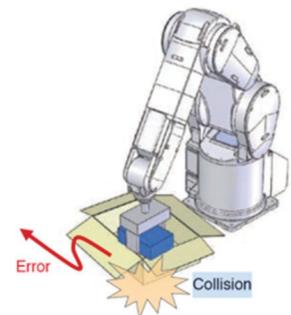
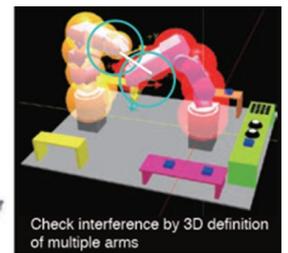
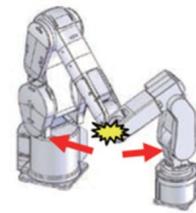
- Driving a round picker through a metal track under processes:
 - e.g. foam application on door locks in the automotive industry
 - e.g. laying a gasket
- Pick & Place by inserting rollers into milled holes
 - e.g. wrapping biscuits
 - e.g. test tube stacking in the pharmaceutical industry
- Video surveillance
 - connection and calibration to the vision system
 - correction of the roll position as a coupling from the vision system

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RV-2FR robot parameters:

- Maximum payload: 3 kg
- Working radius: 504 mm
- Pneumatic and electric cables built into the robot
- Valve island mounted on robot arm as standard
- Additional with robot:
 - Collision detection
 - Open communication with any 2D and 3D vision system
 - Axle clearance
 - Linear and circular tracking functionality
 - Option to control an additional eight servo axes



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MELFA Smart Plus



MELFA Smart Plus

Optional Melfa Smart Plus Card:

- Correcting the robot's position according to the ambient temperature
- Maintaining business continuity through predictive and preventive maintenance tools
- AI (artificial intelligence) tools for the task of picking loosely stacked products (so-called 3D bin picking).

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Feel free to contact us:



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