

April 28th, 2025

SMARTHANDLE: KUKA showcases Dual-arm Robotics in SMARTHANDLE's online workshop



On 14 April 2025, KUKA hosted an engaging and well-attended online workshop under the SMARTHANDLE project, offering deep insights into the future of flexible production systems. The "Flexible production using single- and dual-arm systems" workshop was part of the Horizon Europe-

funded project, which aims to revolutionize resilient manufacturing through smart robotic handling solutions.

With attendees from industry and academia, the session highlighted practical applications of single- and dual-arm robotic systems in real-world industrial settings.

Innovations on display

The workshop featured two major demonstrations developed within the SMARTHANDLE framework:

- ◆ **Dual-arm robotic system for aluminium profile handling.**

This session showcased how reconfigurable robotic arms can manage large and variable-section aluminium components with increased dexterity and efficiency.



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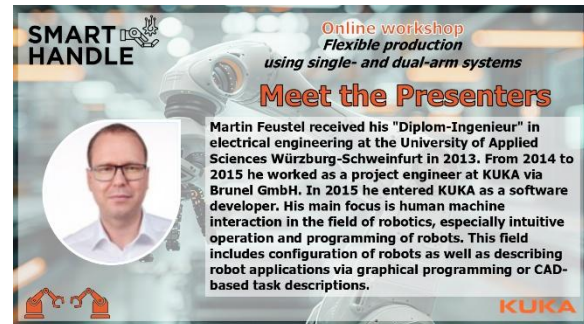
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♦ Task-based programming for battery disassembly.

Aimed at tackling the complexity of handling EV batteries, this demo explored intuitive and intelligent programming methods for disassembling high-variance battery systems, a key challenge in circular manufacturing.



Interactive discussions and expert insights



Moderated by Kirill Safronov (KUKA), the workshop featured technical insights from Giuseppe Monetti and Martin Feustel, both from KUKA, who are directly involved in the development of the showcased technologies. Each session included a live Q&A, giving attendees the opportunity to engage with the experts and explore implementation scenarios and technical

details.

The event concluded with a shared vision of smart, reconfigurable production lines where AI, robotics, and human-centric design converge to support safer, more efficient manufacturing across Europe.

About SMARTHANDLE

SMARTHANDLE is a Horizon Europe Research and Innovation Action focused on creating intelligent robotic handling systems for diverse and complex production environments. Its solutions are being tested across three industrial use cases: delicate contact lens manipulation (MENICON), aluminium profile packaging (ALUMIL), and battery disassembly (ABEE).

Follow the project's updates at: <https://smarthandle-project.eu>



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