

Can a robotic cell disassemble a battery pack?

The analysis highlights that a complete automatic disassembly remains difficult, while human-robot collaborative disassembly guarantees high flexibility and productivity. The paper introduces guidelines for designing a robotic cell to disassemble a battery pack with the support of an operator.

How do you disassemble a battery pack?

To conduct the operations, destructive disassembly has been a prevailing practice. The disassembly phase of the battery pack includes cutting cable ties, cutting cooling pipes, and cutting bonded battery modules and the battery bottom cover for separation.

How ATEX 3 battery pack was disassembled?

Following the recommendations given after the safety analysis, as a specific potentially explosive atmosphere (ATEX) 3 zone, the battery pack was manually disassembled. The manual disassembly brought to a disassembly procedure which was decomposed and analysed to identify how to automate the same operations with a robot.

How to design a battery disassembly system?

The design of the disassembly system must consider the analysis of potentially explosive atmospheres (ATEX) 1 of the area around the battery pack and, if necessary, adopt tools enabled to work in the corresponding ATEX zone.

Is a fully automatic battery pack disassembly possible?

Battery pack disassembly is a part of this field of applications as a practical approach to preserving operators' safety and health by coping with the high variability of products [38,64]. However, most authors agree that a fully automatic battery pack disassembly is not feasible with the current constraints [17,21,37,41,56].

How many tools does a robot need to disassemble a battery pack?

In [1], authors identified the four mandatory tasks: handling, separation, clamping, and monitoring to pursue the disassembly of the battery pack into modules. The robot needs at least one tool for each listed task. Several works analysed the disassembly, proposing the design of specific disassembly tools.

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