

Energy storage battery box disassembly method

How do you disassemble a battery?

During the battery disassembly process, the casing and module must be separated. Standard methods include mechanical cutting, laser cutting, hydraulic shearing, and manual disassembly.

How long does it take to disassemble a battery cell?

The laboratory experience showed that the complete disassembly of a battery cell took 20 min. A summary regarding this category of publications can be found in Table 5. The analysis of the above-mentioned publications thereby highlights the fundamental challenges that exist in automated disassembly of LIBs.

How much does it cost to disassemble a battery pack?

The total cost per pack disassembly into modules ranges from EUR 80 to 110, depending on the size of the disassembly plants, in Germany. Rallo et al. considered the laboratory scale and determined a total cost of EUR 1325 to disassemble the Smart ForFour battery pack into cells.

What is a planning approach for battery pack disassembly?

For example, Wegener et al. mainly discussed a planning approach for battery pack disassembly using a priority matrix and disassembly graph. They featured the disassembly of the Audi Q5 Hybrid pack to develop the sequence and strategy while proposing a basic workstation layout for the disassembly process.

Do batteries need to be disassembled?

The batteries need to be disassembled for remanufacturing up to the cell level, as shown in this work. However, there are some technical challenges in this disassembly operation. Examples on how to overcome these challenges are:

Where is the battery management box located?

At the moment, the Battery Management Box is located on the inside of the Battery Housing closest to the beam with no space around it, requiring disassembly of the battery from the truck to enable movement of the box.

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