

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.

Can a battery be disassembled?

It does, however, show that disassembly, rather than shredding, can be used if structural adhesive use is minimised. Once the cells are separated, they are opened in an inert atmosphere, using a bandsaw to cut off the terminals and battery management system.

What is repurposing as a building energy storage system?

Repurposing as building energy storage systems is an energy-efficient and environmentally friendly way to second-life electric vehicle batteries (EVBs) whose capacity has degraded below usable operational range e.g., for electric vehicles.

What is end-of-life battery disassembly?

End-of-life battery disassembly has been demonstrated on a commercial scale by the Swiss company Kyburz, who build light weight electric vehicles for private individuals, companies, municipalities, and delivery companies. Their vehicles are powered by LFP cells, and the recycling protocol is claimed to recover > 90% of the battery materials.

Can a battery disassembly process be automated?

The highest potential of automation was for a recycling use case with an average of 74.2%; this result was motivated by the fact that recycling does not necessarily need non-destructive disassembly. However, all the experts agreed that a fully automated disassembly process is yet to be feasible due to the current battery design and structure.

Why do manufacturers need to provide detailed information about battery disassembly?

The obligation for the manufacturers to provide detailed information on the disassembly sequence, fastening methods, and SoX enables overcoming the lack of information from the original equipment manufacturers (OEMs) regarding battery disassembly.



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