

Disassembly of home energy storage equipment

What is a typical disassembly system?

A typical disassembly system consists of various sub-systems, including but not limited to robots/manipulators, disassembly tools, fixture systems, sensing systems, internal logistical systems, control and management system, and human worker stations (Vongbunyong and Chen, 2015).

How can intelligent disassembly systems be sustainable?

The sustainable design of the intelligent disassembly system requires the assessment and auditing of its lifecycle impacts. The carbon emission should be monitored and reported during the operation to optimize its energy performance for meeting the environmental sustainability goal.

Which disassembly methods should be used for reusing and remanufacturing components?

Non-destructive disassembly methods, e.g., unscrewing and selective de-soldering, are highly recommended for reusing and remanufacturing some components. To flexibly handle all the above-mentioned joints, it is necessary to enable the disassembly system with varying tools and fast multi-tool change capability.

What are the risks of disassembly operations?

Risky disassembly operations have no tolerance for decision mistakes that harm human health and safety. There might also be ethical and/or legal implications if an accident or severe pollution happens due to any AI's reliability problems. 3) System Security.

What should be considered in disassembly practice?

In disassembly practice, the practitioners should examine the performance reliability and repetitive precision of their AI model and system. The performance tolerances for different disassembly tasks are also needed to be carefully estimated. Risky disassembly operations have no tolerance for decision mistakes that harm human health and safety.

How can a smart disassembly factory reduce the risk of accidents?

More importantly, as presented in Section 4.4.2, real-time monitoring and predictive control of the hazardous disassembly environment are practically based on the IoT and CPS systems. Such a smart disassembly factory will minimize the risk of accidents.



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