Flex·BD
FLEXIBLE BATTERY DISMANTLING

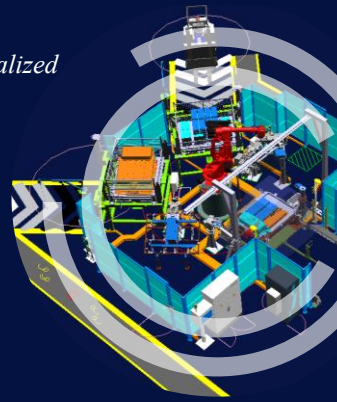
COMAU · Hydro · Università della Svizzera italiana · Evyon · FESTO

PROBLEM/ISSUE ADDRESSED
Low quality of manual operations.
Low speed of the recycling operations.
No existence of standardized battery construction.
Worker exposure to harmful chemicals, high voltages, heavy loads, dull and repetitive tasks.
Huge amounts of car batteries that will need to be recycled.

SOLUTION
A flexible solution that allows automatic disassembling of battery packs, able to handle different designs, shapes and that potentially were built using different manufacturing strategies and by different producers thanks to high level programming approach (metalanguages)

WHY IT IS IMPORTANT FOR SOCIETY
The project contributes to enhanced industrialization of recycling and sustainability of the battery value, chain and avoiding substantial volumes of harmful waste. Saves operators from the hazards connected with manual operations on battery packs while enabling maximum value creation from every battery.

“Thanks to EIT, we have industrialized and commercialized an innovative and flexible solution that disassembles batteries from different manufacturers, powered by artificial intelligence and meta-languages”



MAIN RESULTS & INSIGHTS

- Automatically dismantling and ease to re-adapt the solution of automotive batteries through metalanguages, low code programming and self-adaptive approaches
- Complete engineering and production of a reusable, reconfigurable and flexible industrial solution.

eit Manufacturing

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