4 sets of battery assembly drawings

How a battery design is developed?
The design solutions are assessed from an assembly,disassembly and modularity point of view to establish what solutions are of interest. Based on the evaluation,an "ideal" battery is developed with focus on the hardware,hence the housing,attachment of modules and wires,thermal system and battery management box.

What are assembly drawings?
Assembly drawings are technical illustrations showing how product components fit and function together,including details like part numbers,dimensions,and assembly sequences.

What's new in battery design?
Batteries in general is also revised to get a better overview of what functions and parts are included in a battery in order to map its functions in an Enhanced Function-Means model. This model creates an image of how the functions and design solutions are connected to each other.

How does a battery tray assembly work?
The battery tray assembly consists of several production steps. Depending on the battery design and manufacturing processes,manual tightening with bolt positioning and process control,or flow drill fastening with K-Flow technology can bring the needed process quality,productivity and flexibility.

How are battery housings assembled?
All battery housings are assembled using screwswhich is beneficial for the disassembly since it is possible to remove the lid without damaging it. However,a large amount of screws is needed,making it a time-consuming activity and an increased number of parts results in longer lead times as well as higher material usage.

What are the components of a battery pack?
The packs' primary components are the modules,often connected electrically in series and constructed by a set of cells. These cells can either be cylindrical,prismatic or pouch as illustrated in Figure 6. (4) The electrolyte used in the battery packs varies depending on what kind of cell that is employed.

The assembly of a battery for hybrid and all-electric vehicles is one of the most safety-critical processes in vehicle manufacturing. But how does the K-Flow flow drill fastening joining ...

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We have outlined a complete battery assembly process for prismatic cells - from the single cell to the finished battery pack. We help our customers develop unique joining processes and select ...

4 sets of battery assembly drawings

ASSEMBLY INSTRUCTIONS FOR RDC STANDARD AND EP RACKS 1. Material Verification: Battery racks are shipped unassembled with a complete set of related drawings and ...

Our K-Flow flow drill technology is the ideal mechanical fastening solution to meet these requirements.K-Flow utilizes a fastener rotated at high speed, applying pressure to warm up ...

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In this example, you create a battery module of four parallel assemblies with an intergap between each assembly of 0.005 meters. You also define the model resolution of the module and add ...

In the related art, the pole of power battery sets up on the top cap structure generally, and the pole is realized realizing with top cap fixed connection through setting up plastic part in the ...

Electric vehicle (EV) battery pack assembly is the final stage of the battery manufacturing process. A battery pack comprises several battery modules and components that protect the battery ...

Assembly drawings package question. A lNegro. 4-Participant ?May 23, 2014 03:22 PM. Mark as New; Bookmark; Subscribe; Mute; Subscribe to RSS Feed; Permalink; ...

The transition toward Industry 4.0 ensures competitive advantages and reduces production-related costs from 20% to 35% in each step of battery cell production: electrode production, ...

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