

Title: Battery pack synchronous tightening
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Abstract: The assembly of battery modules in a battery electric vehicle (BEV) plant involves several critical operations, including tightening screws to make connections between ...

Such synchronized tightening equalizes the load on every screw, minimizes mutual stress interference, and raises both the assembly quality and the long-term stability of the whole ...

This paper mainly adopts the simulation and test methods to study the torque attenuation of bolt connection between the upper and lower boxes of battery pack, calculates the modal shape of ...

E15 collaborative robot is applied for new energy battery pack screw tightening solutions. ??? With 7 times bearing torque, it can accurately lock screws...

An intelligent assembly method was designed to realize the intelligent assembly of the profiled thermal battery pack and improve its assembly accuracy.

This machine is designed to compress and tightly bond the prismatic cells together, ensuring that the battery pack maintains ...

This simultaneous tightening eliminates sequential errors--where tightening one fastener might affect the tension of others--and enhances the structural integrity of the assembly.

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