

# **New energy battery cabinet automatic tightening**





## Overview

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How difficult is it to tighten a module to a battery tray?

The tightening process of a module to a battery tray is quite challenging because of the soft joint behaviour of the gap filler material. Furthermore, and depending on the available floor space inside the automated tightening cell, overall space for additional tightening controllers is very limited.

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.

Why do batteries need to be reprogrammed?

Irregularities such as part tolerances, position deviations, or contaminations tend to complicate the process. Any error in this process step can damage the battery's exterior, lead to weak joints, harm the sensitive cells, and lead to dangerous short circuits affecting the performance and the overall safety of the battery.

Why does a battery tray need solid joints?

Any error in this process step can damage the battery's exterior, lead to weak joints, harm the sensitive cells, and lead to dangerous short circuits affecting the performance and the overall safety of the battery. Due to its mixed material composition, the tray needs solid joints.



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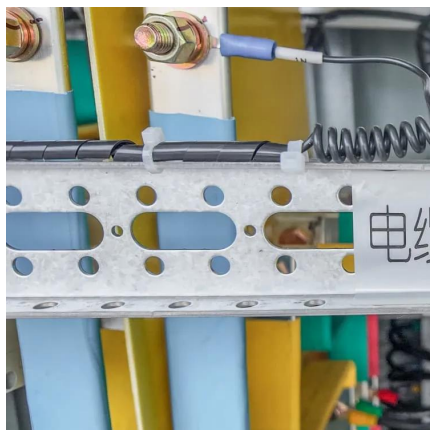


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2. Install battery retention strap through openings in rear of battery cabinet. Orient the buckle per Figure 17. 3. Secure the battery cabinet to the relay rack with the provided 12-24 x 1/2" hex ...



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