

Battery cabinet automated production equipment





Overview

What is PC-based battery control?

Our control technology enables end-to-end automation of all processes in battery manufacturing: from electrode production to module and pack assembly. PC-based control offers advantages for all machine types, no matter whether you produce round, pouch, or prismatic battery cells.

How can a PC-based automation platform improve battery cell winding efficiency?

Our approach involves the use of a central PC-based automation platform to achieve maximum process efficiency in battery cell winding, as this allows vision systems, motion tasks, and communication to I/Os to all be controlled with a high level of synchronicity. It also enables precise winding accuracy while maintaining high output.

How can a battery manufacturer get to market faster?

Our portfolio of innovative, flexible and complete production solutions enables battery manufacturers to get to market faster through cross-technology production systems that target key manufacturing steps, such as electrode and cell production, battery module and pack assembly stations and end-of-line testing.

How can Beckhoff help in battery manufacturing?

Your head start in battery manufacturing with Beckhoff: Our vision system, for example, is used for winding round cells. The rolling process used in round cell production involves winding a jelly roll from an anode strip, a cathode strip, and two separator strips. This calls for exceptional precision and speed.



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