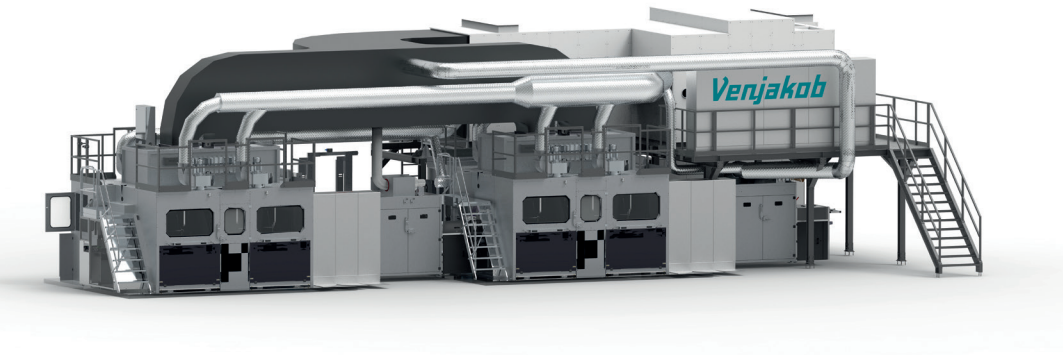
CONTACTLESS COATING OF BATTERY CELLS

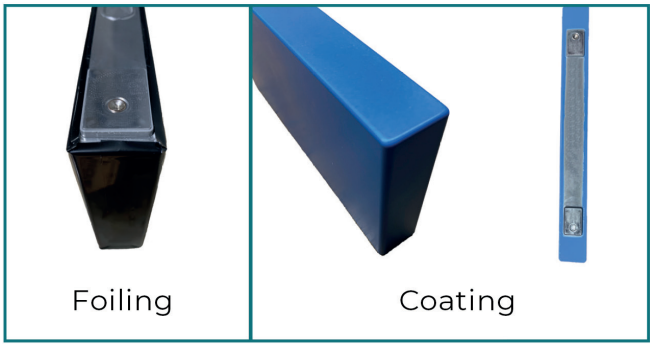
INNOVATIVE PROCESS: COATING REPLACES FOILING OF BATTERY CELLS



Battery cells used in electric vehicles are usually covered with a protective film. A complex and costly process. Alternatively, there is now a special UV varnish that provides equally good protection for the sensitive cell modules. Our engineers have developed a fully automated system solution for this new type of coating on behalf of the customer. Prismatic cell modules in various formats can be coated without contact in a continuous process. This has accelerated the entire battery cell production process, reduced the workload and cut costs.

TECHNICAL CHALLENGES, GOALS AND HIGHLIGHTS:

- Protection of the sensitive cell modules must be guaranteed
- No handling/turning/gripping → no damage to the battery cells
- 6-sided coating of the battery cells in a continuous process
- Coating of different prismatic battery cell formats without retooling
- Immediate drying/curing of the coated cells → enables immediate further processing
- Paint recovery → reduced paint consumption
- Reliable all-round protection of the cell edges
- Increased production speed



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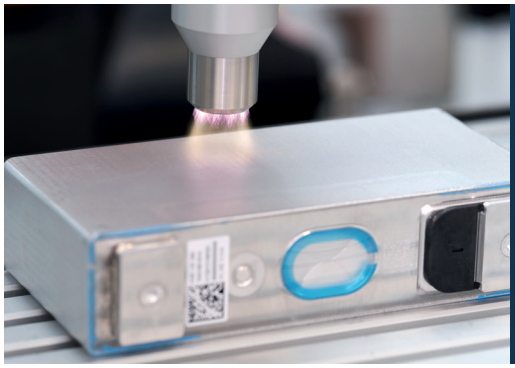

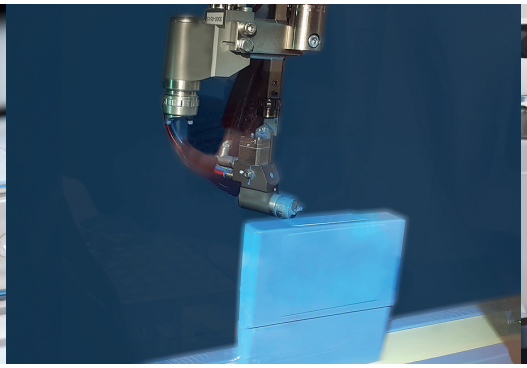

Venjakob Maschinenbau GmbH & Co. KG
Augsburger Strasse 2-6
33378 Rheda-Wiedenbrueck
Germany
Phone +49 5242 9603-0
Fax +49 5242 9603-40
info@venjakob.de
www.venjakob.com

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