

Aluminum alloy battery cabinet production line





Overview

Is aluminium a good material for battery housings?

At Speira, we have been dedicated to the development of aluminium as a primary material for battery housings for many years and, in addition to the market standard 3003, we have also designed our own 3xxx variant for prismatic cell housings, which allows for a very high proportion of recycled aluminium.

Why should you choose a battery cell housing made of aluminium?

Thanks to efficient heat dissipation via the aluminium housing, the batteries remain cool and safe even during fast charging. A more homogeneous temperature distribution within the battery cell housing also lays the foundation for a long service life. Ultimately, a battery cell housing made of aluminium ranks at the highest level of sustainability.

Why are battery housings made of aluminium used in e-mobility?

Battery housings made of aluminium are not only used in e-mobility, however, but also in stationary applications such as the energy storage systems of solar or wind power plants. Here, they effectively protect the battery thanks to their strength properties and high corrosion resistance, even under the most difficult weather conditions.

Who makes aluminum battery casings?

They have honed their focus on the automotive industry, particularly on its electrification, ascending to become the supplier of aluminum battery casings and exterior parts. Their global footprint is underscored by strategic partnerships and joint ventures, notably with the Renault Group for manufacturing battery casings in France.



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Jul 19, 2024 · [0003] Described herein is a battery enclosure built using aluminum sheet parts and an assembly process that includes two-sided joining methods. In certain aspects, high strength ...

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[Battery Cabinet Aluminum Frames , Huijue Group E-Site](#)

Sep 14, 2025 · When designing modern battery cabinets, engineers face a critical question: How can we ensure decades of reliable service in harsh environments? The answer often lies in ...



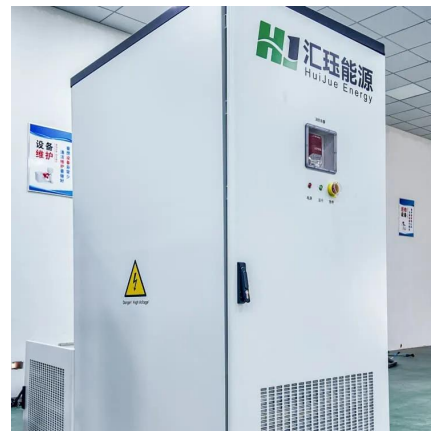
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At Speira, we support you with customised aluminium alloys that are designed for use in battery cell housings and covers. With our innovative ...



[Custom Fabrication for Lithium Battery Production ...](#)

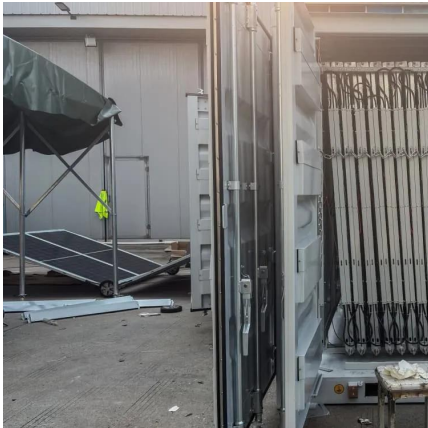
Openex specializes in custom fabrication of platforms, tanks, enclosures, and structural parts for lithium battery production lines using carbon steel, stainless, aluminum, and nickel alloys.





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