

Can 3D printing be used to design a battery bracket?

As a consequence, it is particularly imperative to undertake lightweight design optimization for the battery bracket of new energy vehicles by applying 3D printing technology. To actualize this goal, Rhino software was initially employed for 3D modeling to design the battery bracket system for a pure electric vehicle in China.

How is a battery bracket made?

The geometrically reconstructed battery bracket exhibits a clear structure. The lower part of the bracket can be manufactured by stamping, while the lugs can be produced through milling or stamping processes. Welding can be utilized for connecting the bracket with the lugs, thus fulfilling the requirements for mass production within the enterprise.

Do battery pack brackets meet production requirements?

As revealed by the assembly results, the components of the battery pack bracket are tightly coordinated with each other, with no evident assembly conflicts, revealing that the dimensional accuracy and fit of the completed parts meet production requirements.

What does a battery bracket do?

Serving as the primary component responsible for carrying and protecting the power battery, the battery bracket fulfills paramount roles including battery system support, heat dissipation, collision prevention, and bottom contact prevention.

How to improve battery pack performance for new energy electric vehicles?

Certainly, to strengthen the all-round performance of the battery pack system for new energy electric vehicles, further experiments are essential. These may include 3D printing of high-performance cooling water circuits for batteries, assessing the impact resistance of battery systems, and other relevant studies.

How RHINO software is used to design a battery bracket system?

To actualize this goal, Rhino software was initially employed for 3D modeling to design the battery bracket system for a pure electric vehicle in China. Subsequently, topology optimization design of the battery bracket was carried out by adopting Altair Inspire software.

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This new energy automobile battery bracket sets up through the cooperation of supporting ...

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