

New energy battery box riveting process

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.

How can a battery system improve the quality of electrical components?

Assembly of electrical components Using battery tools with an integrated controller, a precise assembly in this complex process step is achieved while isolated sockets provide optimal operators' safety. Wireless bolt level positioning systems and process control software guide the operator clearly and increase battery quality. 8.

How can rtvision improve the quality of a battery?

For quality assurance, you can add a vision solution to your application system. RTVision.s inspects the surface after the application and provides reliable feedback on the application quality. It recognizes gaps or edge blur. One of the last steps in battery manufacturing is joining the battery cover to the battery tray.

Why do EV batteries need a scalable dispensing solution?

Thousands of cylindrical cells are installed in a modern EV battery. Dispensing solutions need to be scalable to meet short cycle times. At the same time, complex structures and small-scale dispensing tasks require highly precise applications.

What happens after a battery module is assembled?

After the battery module is assembled, it needs to be placed into the battery tray. As this tray is a key structural component of the vehicle as well as integral in protecting the battery cells, it needs to be of the highest strength and stability.

What is a henrob rivet?

The extensive Henrob rivet line is the only SPR on the market covering the wide range of newly introduced EV body materials. radical difference in speed and processes for how companies bring a product to market has changed nature of the entire automotive industry.

The invention discloses the FDS riveting process of a kind of battery pack housing and cover board, include the following steps: Step 1: Workpiece is cleared up, by battery pack housing ...

We believe in battery riveting technology! The focus of our work for more than 10 years has been on the development of the latest cordless riveting tools for professional use. The entire ...

From cell production to final assembly - Atlas Copco is your innovation partner for electric vehicle battery production and data driven process improvement 0-1. Cell component and cell inspection

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On-Demand Riveting: Revolutionizing Workflow with Battery-Operated Guns In the realm of construction and fabrication, riveting has long been a crucial process. However, ...

We believe in battery riveting technology! The focus of our work for more than 10 years has been on the development of the latest cordless riveting tools for professional use. The entire process lies in the hands of HONSEL: From the ...

The basic self-pierce riveting process involves driving a rivet at high force through material layers into a die which causes a rivet tail to flare out and form a tight, self-sealed joint. The result is a short cycle joining process with high strength ...

The invention discloses a new energy battery upper cover hot riveting process, which is used for carrying out new energy battery upper cover hot riveting through integrated...

Figure 2: 4680 battery disassembly process ... A copper rivet is placed at the center of the negative terminal to seal the filling hole. The shell has a thickness of 0.5 ...

concept and production of new EVs and their batteries, like battery range and safety, the optimal joining technologies, and how to reduce car weight without structural performance loss. ...

The Rise of Battery-Powered Riveting Tools: In recent years, the rise of battery-powered rivet guns has brought about a notable shift in the landscape of riveting tools within manufacturing environments. These tools have garnered ...

For the new energy battery shell of 4680 series, in order to ensure the sealing effect, an upset-extruded step structure was designed at the bottom of battery shell, and after the process test ...

DIY riveting, the process of permanently joining two pieces of metal using rivets, has gained popularity in recent years with the advent of battery-operated rivet guns. These ...

and energy sector, the automotive and transportation industries, aviation and aerospace, engineer- ... Programmable battery blind rivet nut and blind rivet bold setting tool NutBee PRO ...

The initial investment in battery electric rivet guns is generally higher than that of pneumatic guns. However, the long-term savings they offer are substantial. Eliminating the ...

Among these techniques, Self-Piercing Riveting (SPR) has taken center stage, promising a revolutionary approach to assembling EV battery packs and other critical ...

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