

# New energy battery stamping aluminum shell

What are energy power battery shells made of?

The new energy power battery shells on the market are mainly square in shape, usually made of 3003 aluminum alloy using hot rolled deep drawing process. Depending on the design requirements of the power battery, the thickness and width can be customized.

What is energy long cell battery shell?

The new energy long cell battery shell developed and produced by our company adopts a cold bending forming+high-frequency welding process, which breaks through the constraints of traditional deep drawing/extrusion processes and overcomes the welding technology of ultra-thin aluminum shells.

What is a battery pack shell?

Battery pack shell: the external shell used to secure and protect the battery module. The parts that may use aluminum alloy materials include power battery casing wall panels, brackets, etc. Connector: a component used to connect battery modules and other components.

What is the new energy vehicle long cell battery shell sector?

The new energy vehicle long cell battery shell sector, as the company's main strategic development direction in the future, will become the main sector for the company's transformation from the traditional automotive industry to the new energy vehicle industry.

Which aluminum alloy is used in power batteries?

Aluminum alloy is a commonly used material for power batteries, and there is an urgent need to focus on research, development, and upgrading of products and alloy materials. At present, the conventional aluminum alloys used in power batteries mainly include 1-series, 3-series, 5-series, and 6-series.

What is a power battery casing made of?

The material of the power battery casing is generally made of aluminum casing, because the aluminum casing has excellent lightweight structure, good thermal conductivity, and is safer and more durable.

Founded in 2008, Dongguan Kaiyan Hardware Products Co., Ltd. is a manufacturing enterprise specializing in precision metal stamping. Its main products include: new energy vehicle battery, LED power shell, aluminum panel, chassis, bracket, shovel tooth radiator / piece electronic RF shield, socket spring contact piece, drawing piece, structure piece, terminal, home appliance ...

The aluminum battery shell utilizes premium aluminum alloy materials, such as Al3003, renowned for its excellent corrosion resistance and formability. Al3003 alloy offers suitable strength and lightweight properties, ensuring ample ...

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In new energy energy storage systems, aluminum alloy stamping parts are also indispensable. For example, in the manufacturing of battery casings, heat dissipation structures and other components of lithium battery energy storage systems, aluminum alloy stamping parts are widely used for their good heat dissipation, sealing and safety.

New energy power battery shell material 3003 H14 aluminum coil can be integrally stretched and formed. In the manufacture of electric vehicles, the power battery system shell (battery shell) is the carrier of the battery module, which plays a key role in the stable operation and safety protection of the battery module.

A new energy power battery aluminum shell stamping die structurally comprises an upper die plate and a lower die plate, wherein the upper die plate is arranged above the lower die plate at intervals, a support column is arranged between the upper die plate and the lower die plate, a plurality of wear-resistant stamping die seats are arranged on the upper end face of the upper ...

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Electric Bicycles and Electric Motorcycles: Aluminum battery shell is used for battery packs of electric bicycles and electric motorcycles to provide lightweight and rugged battery protection. Rail Transportation: Aluminum battery shell is used for energy storage systems of rail transportation (such as subways and high-speed railways) to ensure stable power supply during train operation.

Aluminum holds a paramount position in the realm of new energy shell stamping, owing to its exceptional attributes, including low density, remarkable plasticity, ease of formability, and ...

The Al shell for square lithium battery is a high-performance aluminum alloy casing specifically designed for lithium batteries in electric vehicles and energy storage systems. This casing not only offers superb physical protection to the batteries but also possesses remarkable heat dissipation performance. The aluminum case for automotive batteries and the shell for EV car batteries ...

The invention relates to a method for manufacturing a new energy battery aluminum shell material suitable for continuous die stamping, which comprises the following steps of smelting,...

This paper mainly uses BP neural network to regression prediction of battery pack processing parameters, but there is still room for optimization in prediction accuracy, and ...

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The aluminum shell of the 3003 aluminum alloy power battery (except for the shell cover) can be stretched and formed in one go, which eliminates the welding process at the bottom of the box ...

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