



# Blade battery and fully automatic production line

How long does a blade battery take to charge?

In addition to solving the issue of endurance - once a previous limiter to the development of traditional lithium iron phosphate batteries - the Blade Battery can be charged from 10% to 80% of its full capacity within 33 minutes, supporting the BYD Han EV's acceleration of zero to 100 km/h in 3.9 seconds.

What is a blade battery?

They serve as the bedrock for efficient and stable production, in turn forming the backbone of the Blade Battery's quality. The Blade Battery refers to a single-cell battery with a length of 96 cm, a width of 9 cm and a height of 1.35 cm, which can be placed in an array and inserted into a battery pack like a blade.

Where is BYD blade battery made?

Located in the city's Bishan District, the factory is currently the only production base for the Blade Battery. It possesses a highly demanding production environment and much of BYD's self-developed Blade Battery production equipment. The factory has a total investment of 10 billion yuan with an annual production capacity of 20GWH.

How safe is a blade battery?

According to Sun Huajun, the Vice General Manager of FinDreams Battery, these demanding conditions are a "necessary foundation" to the Blade Battery's high safety standards. "The nearly one-meter-long pole piece can achieve tolerances of within  $\pm 0.3\text{mm}$ , and the accuracy and speed of a single-piece lamination have an efficiency of 0.3s/pcs.

What is a blade battery EV?

Diverse applications of Blade Battery Electric Vehicles (EVs): Blade Battery technology can be employed in electric vehicles, offering enhanced safety, increased energy density, and longer lifespan compared to traditional lithium-ion batteries. It enables the production of safer and more efficient electric cars with longer driving ranges.

Does BYD use a blade battery?

To address users' concerns about the safety of EV power batteries, BYD will only use the Blade Battery in all its pure electric models moving forward. As the No. 1 brand in China's EV production and sales for eight consecutive years, BYD has always been committed to safeguarding consumers' safe travel.

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The EV Blade Battery CTP (Cell-to-Pack) Automatic Welding Line is a cutting-edge automated solution tailored for the direct assembly of blade battery cells into robust packs without intermediate modules. This line combines high-precision handling, advanced laser welding, and quality inspection systems to ensure efficient, high-throughput ...

The equipment has the advantages of automatic intelligent assembly and production from prismatic aluminum shell cell to module and then to PACK box, improving product quality consistency and automation level, reducing manual intervention, and realizing intelligent data management for whole production process and technical parameters of the product.

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The Blade Battery is produced at BYD's ultra-modern "intelligent" production facility in Chongqing, China, where the 10 billion yuan (1.3 billion EU) site delivers an annual production capacity of 20GWh. Strict standards of cleanliness are matched only by those found in comparable LCD production facilities, with moisture levels precisely ...

This review paper provides a comprehensive overview of blade battery technology, covering its design, structure, working principles, advantages, challenges, and potential implications for the...

Following substantial investment into their production line, the Blade Battery now boasts a fully automated production to maximise their annual production capacity. Having passed a series of extreme tests, it is renowned as one of the world's safest batteries.

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The EV Blade Battery Module PACK Assembly Line is an advanced, automated production system specifically designed for the assembly of blade-type battery cells into modules and PACKs. This line ensures high efficiency, precision, and safety by integrating cell sorting, module assembly, welding, thermal management system installation, and ...

At present, the production capacity of Blade Batteries is rapidly increasing, and the quality is stable and reliable, with some of the auto industry's key players beginning to rely on this ultra-safe battery technology. As leading global carmakers now partner with BYD subsidiary FinDreams Battery, the Blade Battery is set to be successively ...

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