



Aluminum shell battery pack laser welding fixture

What is a battery laser welding system?

The battery laser welding system is specially designed for the battery pack assembly line of prismatic cells, and is suitable for laser welding of aluminum bus bars or copper bus bars and prismatic battery cells. It is suitable for EV battery, energy storage battery, e-bike battery, e-motorcycle battery, UPS battery, AGV battery, etc.

What is lithium ion battery laser welding machine?

To meet this growing demand, SIL has developed the Lithium Ion Battery Laser Welding Machine. This innovative machine enables precise welding of prismatic cells made from materials such as aluminum, aluminum alloy, stainless steel, or OFHC Copper. It is capable of welding components with a thickness ranging from 0.5 mm to 3 mm.

What is prismatic battery pack laser welding system?

The prismatic battery pack laser welding system is a professional battery pack assembly equipment, mainly composed of laser source, welding head, 5-axis motion system, water chiller, dust collector and CCD monitoring positioning system. 1.

The desired strength, ductility, fatigue life as well as electrical resistivity are crucial to attain in laser welding of dissimilar materials aluminum and copper in busbar to battery tab in BEVs ...

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BATTERY LASER WELDING MACHINE Fully automated or manually loaded, this laser welding machine can be integrated in high volume battery production lines. It can make cell-to-busbar connections for various battery-module and battery ...

300W Laser Welding Machine for Stainless Steel Shell and Aluminum Shell of Battery. Model Number: TMAX-UW-300A; Input Power: 12KW; Dimension(L*W*H): 610(W)*1200(D)*1000(H)mm; Compliance: CE Certified; Warranty: One years limited warranty with lifetime technical; Payment: L/C D/A D/P T/T Western Union; Delivery Time: 5 days

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generally uses a lower power laser.

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High precision lithium battery module laser welding machine has the gantry structure which can be welded in large format, and multiple sets of fixtures can be installed at the same time to ...

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High precision lithium battery module laser welding machine has the gantry structure which can be welded in large format, and multiple sets of fixtures can be installed at the same time to weld various specifications and models of lithium battery modules.

Process characteristics of prismatic aluminum shell battery module PACK assembly line: automatic loading, OCV test sorting, NG removal, cell cleaning, gluing, stacking, polarity judgement, automatic tightening, manual taping, ...

Hot sale power battery laser welding machine is suitable for battery shell and the cover plate are sealed and welded, the shell materials of the power battery are aluminum alloy and stainless steel (stainless and acid-resistant steel). Among them, aluminum alloy is mostly used, generally 3003 aluminum alloy, and a few use pure aluminum. Stainless steel is a laser weldable material, ...

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Module Laser Welding Equipment for Square Shell Battery. Products Description. This equipment is mainly used for the welding of soft package, square shell, cylindrical battery module and ...

However, laser welding in battery packs is quite different from the laser welding inside battery cells. Laser welding outside the cells is usually of penetration welding while laser welding inside the cells is usually of



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seam welding. Penetration welding and seam welding often adopt different welding parameters to meet different manufacturing demands [50]. Therefore, ...

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