



Battery testing guinea

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UNICO automotive testing systems provide system integrators, automotive manufacturers, and electric vehicle companies with test stand systems that are configurable, scalable, long-lasting, and leading edge. You can find UNICO test stand systems throughout the world in well-known automotive research and development...

UNICO electric vehicle testing systems make e-mobility and vehicle electrification development smooth and fast by offering the EV propulsion test stand systems you need, the technical expertise to spec your drives and controls systems, and global support for upgrades, service, and support. Your system is designed...

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Our process control solutions benefit the machine manufacturers in the metal forming, blanking, and stamping industries. From software that precisely synchronizes automation with a press or shear, to hardware backed by decades of experience in electronic drive controls for in-press automation, our solutions...

Unico is a leading manufacturer of innovative products for production and exploration in the Oil & Gas industry, including variable speed drives, controls, pumping units, and remote monitoring systems. We specialize in energy efficient artificial lift automation with expert analytics to maximize production while reducing operational expense.

Most OEMs in paper industry desire to find machines that are unique and offer the latest automation and control technologies for better performance possible. We continue to lead innovation in paper industry with control solutions that are increasingly faster and more efficient in operation when it comes to design and production.

The road to efficient and sustainable electric mobility hinges on the quality and performance of EV batteries. To drive this advancement, Unico has launched groundbreaking Quantum Drive Platform--a game-changing solution to reshape the EV battery testing industry. This article explores the significance of battery testing in EV development and dives into the innovative features of Unico's Quantum Drive Platform.

As the world shifts towards sustainable transportation, the importance of battery testing in EV development cannot be overstated. Battery engineers, researchers, OEM's and industry stakeholders work in tandem to create batteries that not only deliver superior performance but also uphold safety and longevity.

Battery testing not only validates the performance of individual cells, modules, and packs but also identifies potential weaknesses and opportunities for improvement. It simulates real-world scenarios, enabling engineers



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to optimize battery designs and fine-tune control algorithms. Moreover, the ability to accurately predict battery behaviour under various conditions is crucial for enhancing range, charging times, and overall EV efficiency.

Our Quantum Drive Platform has emerged as a groundbreaking solution set to revolutionize EV battery testing. Our innovation addresses critical aspects of testing--cost-effectiveness, energy efficiency, and flexibility. Displayed recently at the International Battery Seminar in Orlando, Florida, the Quantum Drive Platform has captured the attention of battery engineers, researchers, and industry leaders alike.

A standout feature of the Quantum Drive Platform is its ability to test multiple pack, module, and cell test channels within a single system. This design enables "back-to-back" battery testing, where discharge energy from one channel can be efficiently repurposed as charge energy for another. This intelligent energy utilisation not only reduces wastage but also enhances overall testing efficiency.

The platform boasts high-performance DC channels tailored for cell, module, and pack testing. What sets the Quantum Drive Platform apart is its potential for multiple channels of each type, along with different output voltage levels--all integrated into a single system. This unique configurability empowers battery engineers with unprecedented testing flexibility, streamlining the validation process.

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