

CASE STUDY

VinFast Lithium Battery Pack: Costs Down, Productivity Up with akaMES



Lithium
Battery Pack



Costs Down, Productivity Up with akaMES

CHARGING THE FUTURE FACTORY WITH AN ADVANCED MES

The pandemic has reshaped manufacturing to an extent never before seen. **Firms are now reaching for an intelligent, real-time optimization of factory processes to weave adaptability and resilience into their business framework.** Aiming for greater efficiencies, manufacturers now look for a scalable, end-to-end advanced manufacturing execution system (MES) that responds in real-time and fulfill the constantly changing demands. The MES market is projected to grow from USD 11.9 billion in 2020 to USD 14.9 billion by 2025, at a CAGR of 4.5% from 2020 to 2025*. An advanced MES is expected to deliver better visibility, traceability, along with the ability to manage, monitor and synchronize physical production processes.

Our client - Vinfast Lithium Battery Pack (VLBP), is a member of Vingroup, one of Vietnam's biggest conglomerates. The company specializes in producing lithium batteries for electric motorbikes.

Facing a fast-paced time-to-market strategy, VLBP wished to boost their operational efficiency by optimizing their current MES. Yet, the existing MES required high-touch integration to ERP. Also, adding new product lines might impose great burden to the system. **Realized the need to change, VLBP immediately sought a higher-performance MES that is flexible, highly customizable, and can be easily integrated to ERP.**

TESTIMONIAL

“akaMES offers a high level of flexibility, expansion, and customization for different production lines.”

Management Representative

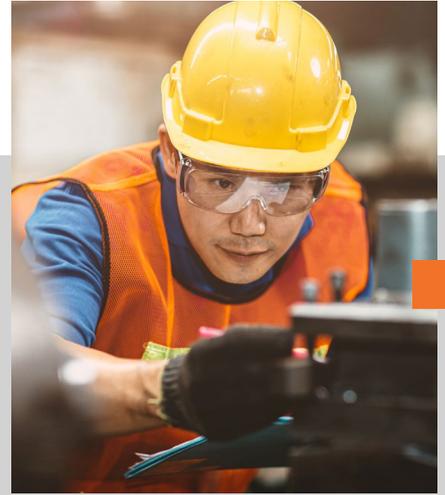
VINFAST LITHIUM BATTERY PACK
LIMITED LIABILITY COMPANY



(*) Manufacturing Execution System Market 2020 - Markets and Markets

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↑18%
in productivity

↑95%
in stability

↑20%
in time-saving

>90%
in real-time monitoring

↓10%
in expenses

SOLUTION

After studying VLBP existing business workflow and information system via frequent meetings with end-users and plant tours, **our experts proposed akaMES – a versatile IT platform for any operation of factories and manufacturers developed by FPT Software.** The system has eight separate modules covering eight key operation aspects, including production, traceability, warehouse, integrity, insight, facility, quality, and digital checklist.

VALUES

FPT has helped the client attain significant outcomes:

- ✔ **System:** After three months of implementation, the solution has been operational 24/7 in a stable and reliable manner. Our full package service, including assessment, consulting, deployment, maintenance, etc., guarantees the new MES's smooth and seamless performance.
- ✔ **People:** The new MES frees the client's operators from the tedious, rule-based, manual data entry. They can now rely on QR code or barcode for item information. Real-time reporting enables managers to keep close track of production processes and act timely when abnormalities arise.
- ✔ **Business:** Shifting to an advanced MES promises enhanced productivity and reduced costs. Since akaMES can be easily tailored for specific business requirements, it can resolve all the pain points that the client might encounter in the unpredictable business landscape. Added with that, the solution allows greater scalability since it offers an almost effortless expansion to other lines and easy integration with ERP.

DISCLAIMER

Developed by FPT Software, **akaMES** is a versatile IT platform for manufacturers to manage and coordinate any factory operations.

The business values of akaMES are manifold, including real-time monitoring, cost efficiency, paper usage reduction, precise and effective planning, as well as data integrity and completeness on production process.

For more information, please visit

www.fpt-software.com