LohiaCorp

LOHIA IoT

CONNECT ANYTHING.
OPTIMISE EVERYTHING.

Discover a world of great benefits with Lohia IoT

Unleash the power of the industrial Internet of Things with Lohia's IoT solutions, that include fully customisable devices which connect machines to send & receive data, regardless of the manufacturer, allowing you to use data analysis tools to:
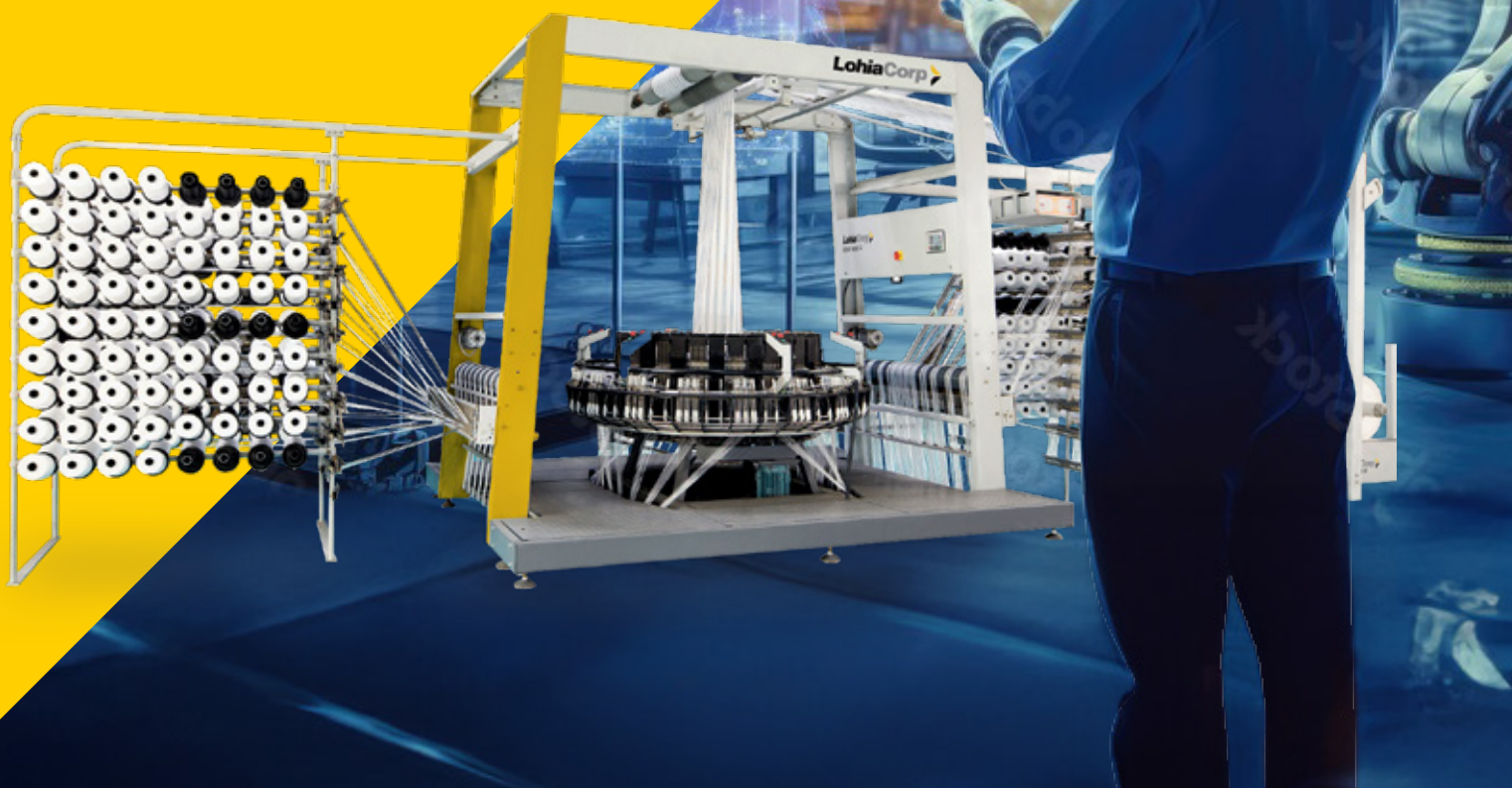
Monitor Overall Equipment Effectiveness (OEE): Assess equipment efficiency by evaluating availability, performance, and quality.

Ensure permanent data storage: Ensure long-term data availability for later analysis.

Enable Data Sharing: Seamlessly integrate with other systems using standard protocols.

Increase productivity and efficiency: Optimise processes to enhance plant efficiency

Generate value: Unlock value by optimising outputs through data-driven insights.
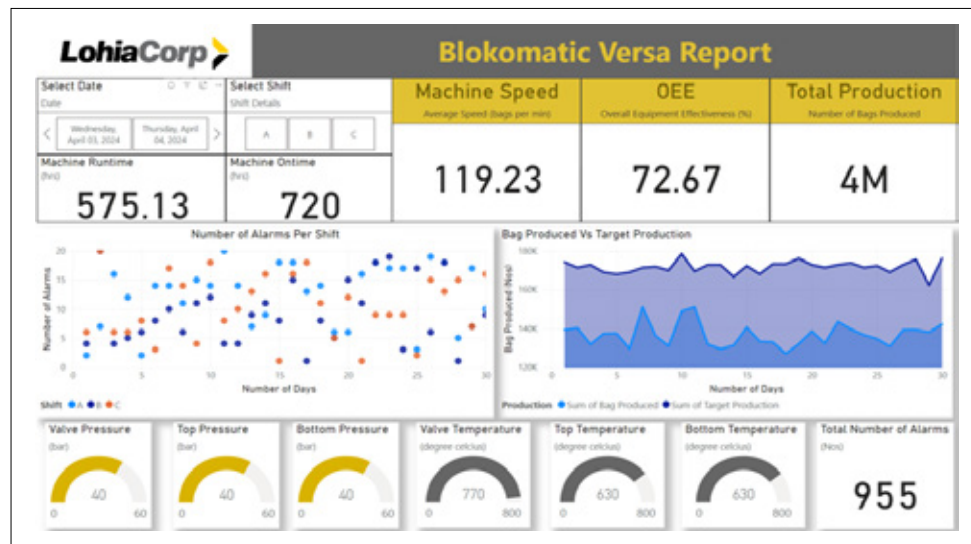
Powered by Lohia's Digital Innovation Centre (DIC)

The Lohia DIC specialises in digital transformation – helping customers digitise traditional manufacturing processes to reduce rework and elevate output standards – in its focus areas of predictive maintenance, adaptive learning, and proactive monitoring. Leveraging IoT, AI and analytics, the DIC empowers customers through actionable insights, with:

- Real-time plant monitoring and data analysis to optimise processes
- Seamless data integration from diverse sources for a unified, collaborative view
- Instant remote assistance to minimise downtimes and ensure operational continuity
- Enhanced predictive maintenance to reduce unplanned downtimes and costs
- Comprehensive energy & digital audits to identify optimisation areas in plants
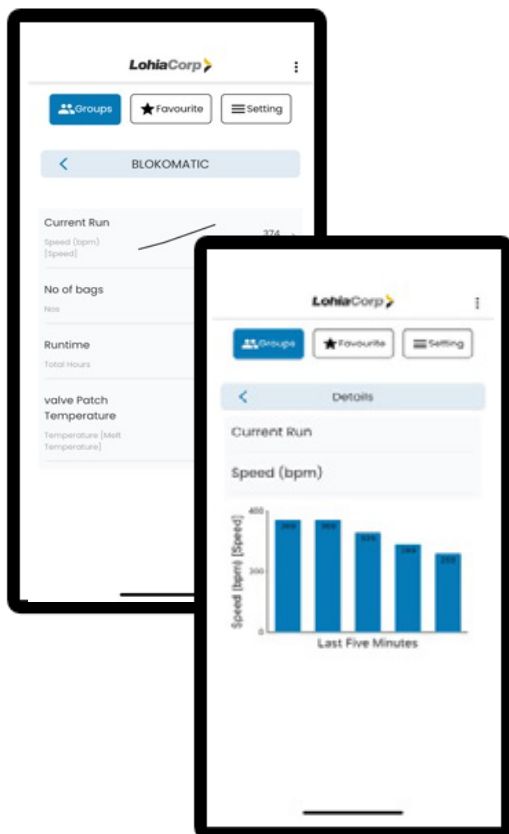
Get more with Lohia IoT

Lohia's IoT solutions are fully customisable to your needs and include:

- **Machine Connectivity:** Collect data from machines without altering your software. We support machines automated with systems from B&R, Allen Bradley, Mitsubishi, and Siemens∗.

- **Edge Computing:** Programming interfaces that allow data processing directly on the machine.

- **Mobile Application:** Monitor real-time data on Android and iOS.

- **Desktop Application:** Custom dashboards to monitor live data on a windows-based app.

- **Raw Data Stream:** Our gateways provide raw data streams for your data scientists to process big data.

- **API Integration:** Access various APIs for better interconnectivity.

- **Data Analytics Integration:** Integrate machine data with platforms like Power BI and Tableau.

What's More, You Also Get:

- Backward compatibility, with plug-and-play systems compatible with Lohia machines sold since 2008; older machines can be retrofitted.

- Standard physical interfaces like Ethernet, COM port, and USB for data channels, avoiding unnecessary changes to your machines.

- Third-party integration using industrial protocols like OPCUA, SQL, EXCEL, and MODBUS.

- Customised solutions tailored to your needs, integrating machine data into your existing ERP or SAP systems to generate custom reports.

- Real-time access to monitor your systems anytime, anywhere via mobile and desktop apps.

- Data availability, so your data remains under your control. We don't store your data unless you opt for analysis and insights from our team.

- Data security with end-to-end encryption.

∗The driver compatibility with the Lohia IoT system has to be checked by the service team because it depends on the PLC model and manufacturing year.

How does it work?

Assessment
The Lohia DIC team will share a survey or visit your premises to identify your requirements

Recommendation
Based on the survey/visit, we share the recommended IoT system and solution details with you

Implementation
The Lohia technical team installs the finalised IoT solution on-site at your location

Why Lohia IoT?

Lohia IoT solutions offer a combination of customisation, expertise, and support, making them the ideal choice for enhancing your operational efficiency and productivity.

- **Proven Expertise:** With 40+ years of experience, Lohia Corp has a solid track record in delivering high-quality machinery and solutions for the plastic woven industry. Our extensive expertise ensures reliable and effective IoT products specifically designed for the raffia industry.

- **Comprehensive Global Support:** Lohia offers continuous, superior pre- and post-sale technical support, ensuring prompt service and spare parts supply through a global network in 100+ countries.

- **Ethical Business Practices:** Lohia Corp is committed to ethical business practices, ensuring transparency, integrity, and trust in all our dealings. Our customer-centric approach ensures that you receive reliable, customised solutions tailored to your unique needs.

- **Operational Efficiency:** Choosing Lohia Corp means partnering with a reliable enterprise dedicated to improving your operational efficiency through innovative IoT and AI solutions.

Lohia IoT – A Case study

The Customer Need

A large Indian packaging company wanted an IoT solution to seamlessly monitor and analyse their plant from a centralised control room as well as integrate and connect their entire plant, including seven Lohia-made machines and other equipment, to their SCADA system.

The Challenge

Integrate standalone peripherals like dosing systems, energy monitors, gauging instruments, and temperature controllers. This required drawing communication from each system to IoT devices, creating a single channel for connectivity to the SCADA system.

The Lohia Solution

The Lohia DIC team conducted a comprehensive requirement analysis to identify the stages of integration for system compatibility. They then implemented raw data streaming from each machine to the customer's data centre, allowing the cloning of HMIs from every machine. This brought the entire plant under a single control room for centralised monitoring.

The Implementation

The IoT implementation took two weeks and included identifying integration stages, connecting each machine and peripheral to IoT devices, creating a single channel for SCADA system connectivity.

The Result

The plug-and-play system implemented by the Lohia DIC enabled effortless replication of configurations across different machines, including those from other various manufacturers. The customer now manages the generated data using the IoT system's analytics interface to gain insights and improve processes. Additional results include enhanced centralised monitoring and control, real-time data analysis for better decision-making, and compatibility with machines from different manufacturers.

Impressed by the success of the Lohia IoT implementation, the customer plans to expand the project to include additional manufacturing units.

Get the power of Lohia IoT on your side!

Get in touch with us.

✉ name.surname@lohiagroup.com

📞 +91 XX XXXX XXXX

🌐 www.lohiacorp.com | (f) (in) (▶)