

Data-driven efficiency improves through VERTECH' solutions for glass

Every year, Vertech' releases a new version of its Manufacturing Execution System, SIL, ensuring a secure and up-to-date platform that evolves alongside glassmakers' operational and technological requirements. As digitalisation reshapes industrial practices, SIL reflects a long-term vision: converting plant data into actionable performance drivers.

FULL CONTROL OVER THE PRODUCTION PROCESS

For more than three decades, SIL has supported container glass manufacturers worldwide, evolving into a comprehensive MES tailored to the specific constraints of the glass industry.

The system enables real-time monitoring through precise Key Performance Indicators (KPIs), covering the entire production chain - from batch preparation to palletising, including mould shops and quality laboratories. This end-to-end visibility ensures full traceability of products and processes, helping manufacturers improve efficiency, reduce waste, and maintain product quality. By structuring and



centralising data, SIL transforms raw information into meaningful insights, enabling a shift from reactive management to proactive decision-making. SIL provides a 360° view of the plant through six modules: SILProd oversees production

lines and facilitates communication between hot and cold ends; SIL4.0 enables plant-wide data acquisition and customisable KPI dashboards; SILXQual manages quality control across materials, products, and pallets; SILXManager sup-

Digitalisation is reshaping glass manufacturing as VERTECH' advances its SIL platform to transform plant data into actionable insights. With real-time monitoring, predictive analytics and seamless integration, the system enhances efficiency, quality and collaboration, positioning manufacturers to meet evolving operational and technological challenges.

ports data extraction and reporting; SILXMold ensures mould traceability and compliance; and SILXMaint optimises maintenance strategies to sustain production efficiency.

SEAMLESS COMMUNICATION ACROSS EQUIPMENT

A key strength of SIL lies in its ability to communicate with virtually any equipment within a plant. Through robust and flexible communication protocols, the system integrates seamlessly regardless of machine suppliers. In increasingly complex production environments, SIL acts as a digital backbone, ensuring consistent data flow across all stages. This interoperability enhances coordination, eliminates information silos and improves overall operational efficiency.

WEB-BASED TECHNOLOGIES

Aligned with the evolution of industrial software and Industry 4.0, Vertech' has transitioned toward web-based applications. Solutions such as SILXQual and SILXMold illustrate this shift, maintaining full functionality while improving ergonomics and accessibility. Designed for multi-device use, including tablets, these tools allow operators to interact directly with the system on the shop floor,

improving responsiveness and simplifying daily operations.

SECURITY AS A CORE REQUIREMENT

With increasing connectivity in industrial environments, cybersecurity has become a central concern. Vertech' integrates security into every stage of SIL's development, encouraging customers to maintain updated infrastructures and adopt best practices such as

virtualisation. The annual release cycle ensures alignment with evolving security standards while incorporating technological advancements, balancing innovation with operational protection.

ENHANCING COLLABORATION ACROSS THE PLANT

Recent developments in SIL emphasise improved human inter-





action within the plant. An integrated messaging feature enables direct communication between departments, facilitating faster information exchange and better coordination. By reducing communication gaps, the system supports smoother operations and quicker responses to production issues.

DATA-DRIVEN INSIGHTS THROUGH ADVANCED DASHBOARDS

Dashboards form the core of the SIL user experience, consolidating large volumes of production data into clear, intuitive visualisations. Users can tailor dashboards to their roles, selecting relevant KPIs, while multi-plant views allow industrial groups to compare performance across sites and harmonise processes globally. These tools enhance visibility and support faster, informed decision-making.

FROM KPIS TO PREDICTIVE ANALYTICS

SIL is evolving beyond monitoring toward predictive capabilities. Continuous development introduces new features that support process optimisation and deeper data analysis. With SIL4.0, advanced analytical approaches are integrated in collaboration with data scientists and specialised laboratories, aiming to identify correlations and anticipate production behavior. This reflects a broader industry shift toward predictive and prescriptive models where data actively drives performance.

SUPPORTING GLASSMAKERS EVERY STEP OF THE WAY

Vertech' complements its technology with comprehensive support services, including maintenance contracts, software updates, upgrades and training. This close collaboration ensures that customers can fully leverage SIL while

adapting it to their specific operational needs.

A DECADE OF OPPORTUNITY

As the container glass industry faces increasing demands for efficiency, flexibility and sustainability, digital solutions such as SIL are becoming essential. By continuously innovating, Vertech' positions SIL as a true performance driver - bridging the gap between data and operational excellence and helping manufacturers prepare for future challenges. ■



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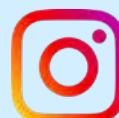


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