



The digital backbone for modern horticultural production

ISAL is the central production and information system for greenhouse horticulture and high-tech production environments. It connects all processes – from sales to climate control, from machines to logistics – in a single platform with real-time insights, full traceability and intelligent control information.

Core functionalities



Sales forecasting & planning

ISAL seamlessly aligns sales requirements and production capacity through sales forecasts, integrated order registration, and insights into available space and process planning.



Logistics

Central system for managing logistics movements in an automated production environment. Thanks to real-time insights into transport movements and machine statuses, the entire production process is transparent and manageable.



Processes

From sowing and transplanting machines to harvesting and packaging lines: ISAL integrates all your machines into a single central production planning and management system, ensuring that processes are optimally aligned and providing complete control over production.



Traceability & data analysis

Advanced registration of plants, trays and batches ensures complete traceability from seed to end product. All data is stored centrally and forms the basis for comprehensive reports, trend analyses and data-driven decision-making.

Ready for the future

Invest in a scalable platform that grows with your ambitions. One system for complete production control, real-time insights and maximum efficiency.



ISAL is the central MES/SCADA platform for your entire production environment. With intuitive screens and powerful dashboards, you have real-time insights into KPIs, production progress, quality measurements and efficiency analyses, enabling you to manage and optimise more quickly and achieve maximum yield from all your systems.



Sales

- Sales forecasts
- Order registration
- Insights into forecasts versus production



Planning

- Cultivation schedule registration
- Space planning
- Process capacity planning
- Resource planning



Logistics

- Control of automatic transport of plants, trays and containers via conveyor belts and/or internal transport systems
- Graphical representation of transport movements
- Real-time insights into product locations, both container systems and concrete floor locations
- Control of spray booms
- Communication with light, water and climate systems



Labour

- Management of employees and functions
- Registration of KPIs
- Link between employee & production



Processes

Control and monitoring of production machines & robotics, including:

- Sowing machines
- Transplanting machines
- Harvesting lines
- Packaging lines
- Sorting systems
- Camera systems
- Industrial robots



Insights

- Dashboards & reports
- Analysis of trends and performance
- Support for continuous process improvement



Historian

- Central storage of all process and production data
- Basis for reports and dashboards
- Power BI integration



Communication

- PLC communication
- REST/JSON web services
- ISA-95 standard
- Import & export functions
- ERP integration

As a central production and information system, ISAL is suitable for production (glass) horticulture, vertical farming and automated greenhouse and research environments.