

FACTORY



Offers



Projects



Products



Truckloads



Materials



Storage



Quality



Capacity



Maintenance



Reports

WALL PRODUCTION



Production



Monitoring

FLOOR PRODUCTION



Machine control



Production



Scheduling



Monitoring

NEW
2019

OPTIMIZED PRODUCTION

ELEMATIC PLANT CONTROL





OPTIMIZE PRODUCTION WITH PLANT CONTROL

Today, precast plants often lack real time connections between different work processes. By bridging these digitally, you can achieve major improvements in the production efficiency and profitability of your plant.

A digital plant control system helps to optimize production and the use of resources. It creates a competitive advantage now and in the future.

Elematic's advanced Plant Control solution is designed for precast production's specific needs. You can manage, control and optimize the whole production process and automatic machines with one system.

We provide various independent modules that connect and support different production lines, sales, storage, logistics and total plant operation. You can expand the system to cover more functions step by step. This way there's no need to make a big investment at one go. You can also make sure that everything runs as it should in selected functions before moving into the next level.

The system can take panel design information directly from BIM systems such as Tekla Structures. In addition to communicating with designers, Plant Control helps sharing information with the construction site.

BUILDING DESIGN AND DETAILING

Uses BIM for design work

PRECAST FACTORY

Element drawings, designs

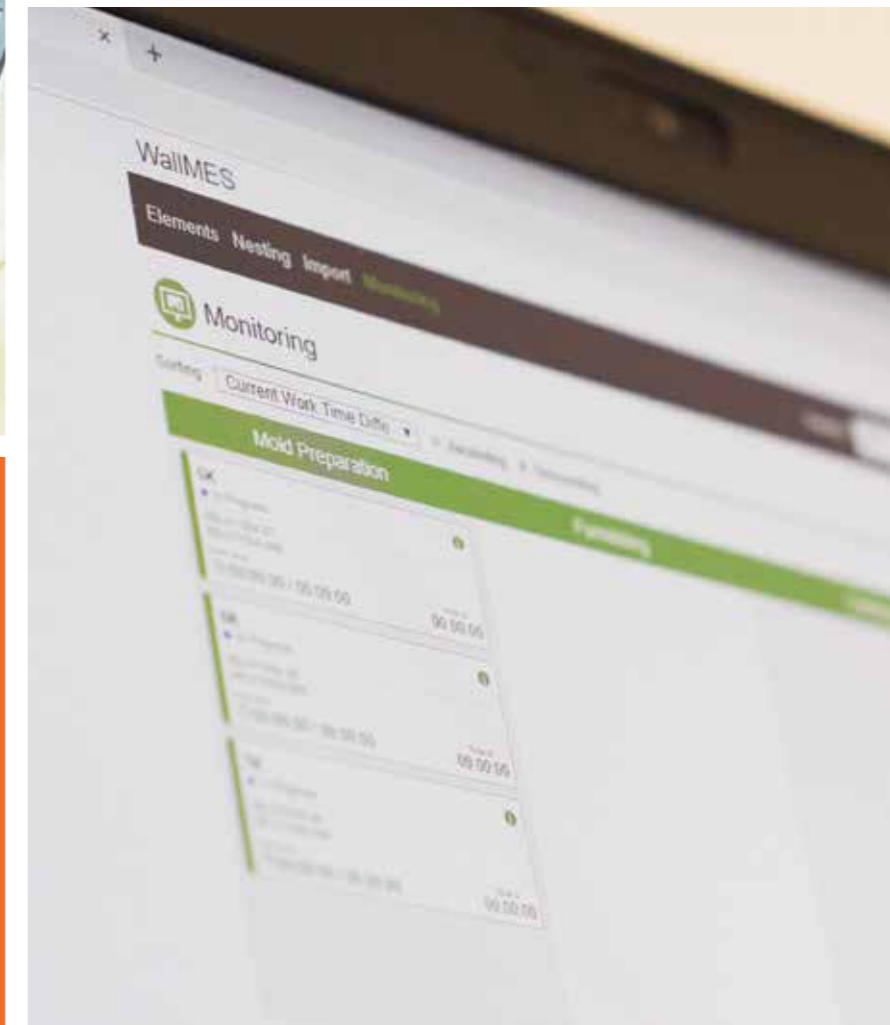
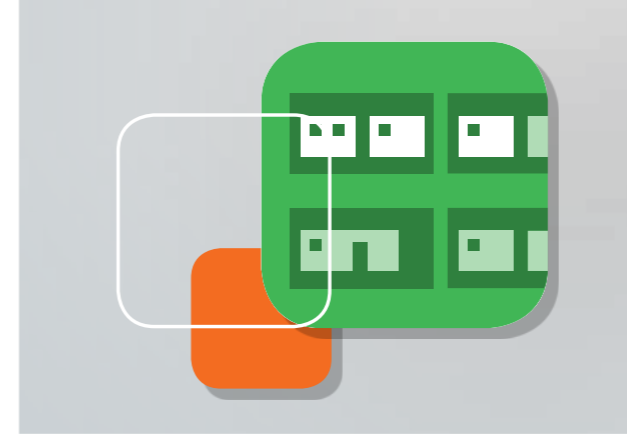
Element ID's, delivery info

CONSTRUCTION SITE

Designs, drawings, element ID's, delivery info

BIM





MORE PRODUCTIVITY FOR YOUR WALL PLANT

NEW
2019

PLANT CONTROL: WALLMES

Elematic manufacturing execution system for walls optimizes precast wall panel production and offers a variety of tools for planning and monitoring. WallMES is part of Plant Control. It includes automatic planning, work follow-up and quality control functions for wall production.

The combination helps you achieve smooth, continuous production and low operational costs as well as the high quality of precast wall panels.

A visual, easy-to-use user interface and automatic key planning functions make production planning simple. It is easy to keep product designs, project and production details aligned.

You will also see up-to-date production statuses, with a comparison to the plan, as factory monitoring is done in the same system. The system stores production history automatically so you can easily use it for further process improvement.

BENEFITS:

- Efficiency figures and working hour estimates with automatic production planning
- Table-specific real-time monitoring of production progress (incl. waiting time and used working hours)
- Improved panel quality with advanced quality control
- Improved production efficiency
- Easy KPI follow-up with production dashboard
- Customizable reporting



MORE EFFICIENCY FOR YOUR FLOOR PLANT

PLANT CONTROL: FLOORMES

The innovative manufacturing execution system FloorMES E9 optimizes hollow core slab production. FloorMES is a part of Plant Control. It includes machine control, production planning, scheduling and monitoring functions.

The system optimizes the use of production lines and work schedules and monitors the work progress. It helps to achieve a smooth process and low operational costs for floor production.

Advanced tools for production planning, monitoring and analyzing and casting process target at zero interruptions.

With FloorMES functions, you will have one single point of access to planning and monitoring your precast floor production with an easy-to-use graphical user interface.

All data required for production planning - such as product design, project and production details - are available at your fingertips. Automatic key planning functions, and the option to make manual adjustments if needed, make production planning uncomplicated and efficient.

You will also have quick access to up-to-date production statuses, with a comparison to the plan, as factory monitoring is done in the same system. Production history is automatically stored so you can easily use it for further process improvement.

Watch video:



BENEFITS:

- Improved utilization of casting beds and reduced strand waste
- Continuous casting process without interruptions
- Immediate correction of any deviations
- Reduced downtime and delays
- Easy process improvement

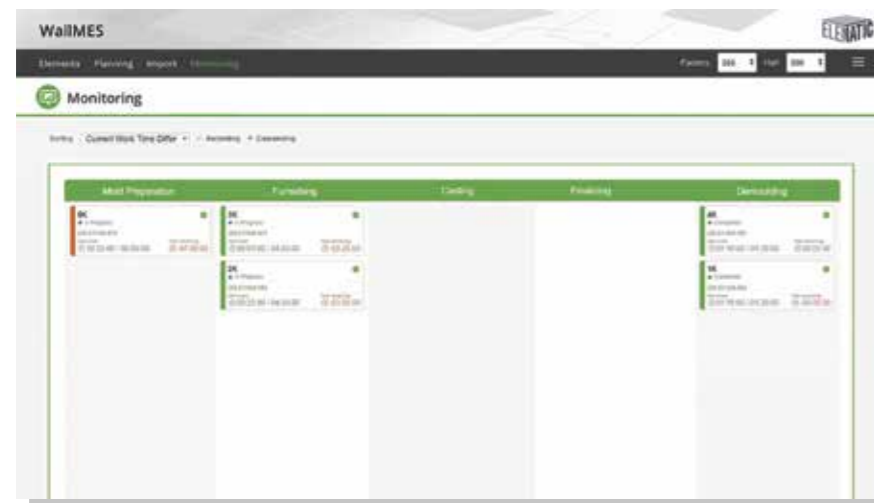
KEY FEATURES FOR WALL PRODUCTION LINES

WallMES



PRODUCTION

- Visual production planning
- Automatic planning
- Direct input of panel data from BIM systems (Tekla structures)
- Real-time KPIs
- Factory-specific definition of tables and shuttering system
- Machine control

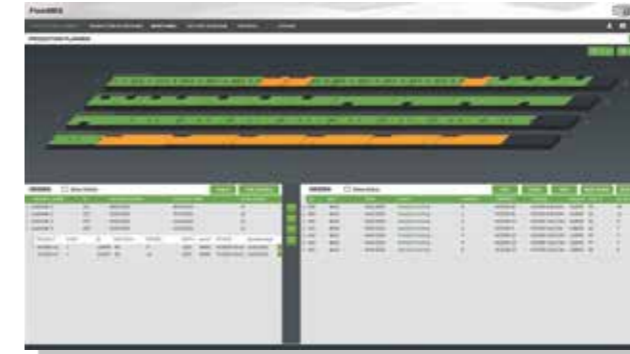


MONITORING

- Production visualization
- Production data collection
- Table-specific monitoring of production progress
- Collection of estimated versus used working hours, waiting times, working times and delays

KEY FEATURES FOR FLOOR PRODUCTION LINES

FloorMES



PRODUCTION

- Visual production planning
- Automatic planning
- Real-time KPIs
- Machine control

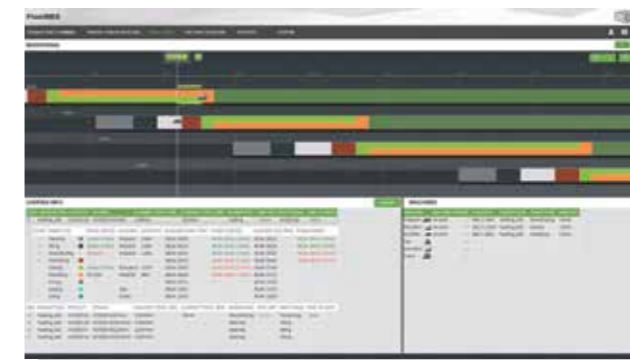
SCHEDULING

- Automatic schedule calculation for work phases



MONITORING

- Production visualization
- Real-time production status
- Production data collection



DASHBOARD TRANSFORMS DATA INTO MEANINGFUL INFORMATION

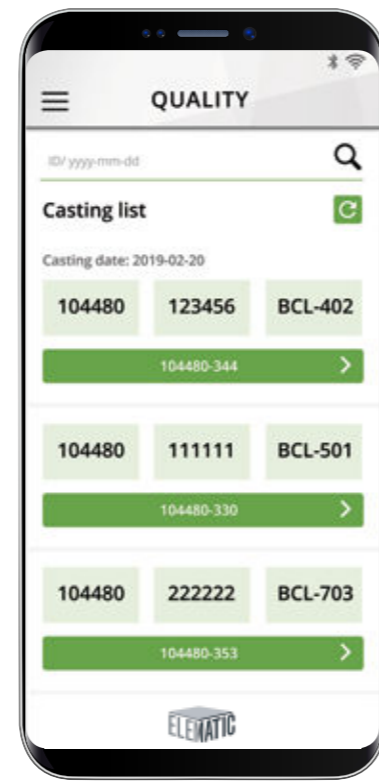


The Elematic Plant Control dashboard uses the data available in the system and shows it in a visual format. It turns data into meaningful factory KPIs.

Reporting includes 10 basic ready-made templates can be numerical or graphical. Automatic reporting provides up-to-date information of factory operations and decreases the need for manual data collection.

Dashboards and reports can be customized according to factory-specific needs.

AVAILABLE ALSO ON MOBILE



PLANT CONTROL

Key features for the factory



OFFERS

- Offers
- Price calculations
- Offer calculation
- Version management
- Create project of the approved offer



PROJECTS

- Projects
- Project summary
- Project documents
- Delivery analyses
- Price and cost analyses
- Material upkeep



PRODUCTS

- Import products from compatible Design SW
- Manage product data
- Upload drawings
- Collect production data
- Store quality data



TRUCKLOADS

- Truckloads according to erection section and sequence
- Plan element positions and order in the load
- Optimize weight for both sides of the truck



MATERIALS

- Materials
- Material upkeep
- Material consumption
- Material forecasts
- Material prices



STORAGE

- Storage
- Visual storage planning
- Waybills and dispatching
- Real-time storage KPIs



QUALITY

- Digital quality inspection sheets
- Fix lists and follow-up for fixing work hours
- Storing and printing of quality data
- Quality analyzes



CAPACITY

- Capacity
- Capacity utilization
- Production line specific
- Load categories
- Reports overloads and gaps



MAINTENANCE

- Inventory of equipment
- Regular preventive maintenance and unscheduled repairs
- Support for spare parts
- Tracking of maintenance history



REPORTS

- Factory specific dashboard for KPIs
- Customizable reporting
- Support for PDF and MS Excel reports

SMART SOLUTIONS FOR PRECAST CONCRETE PRODUCTION

Elematic provides precast concrete technology, production lines, equipment and related services that help customers succeed. We are the global technology and market leader in precast concrete technology for residential and non-residential buildings.

Our precast production technology is highly respected worldwide for its high quality, excellent productivity and efficiency, and advanced solutions. We believe in continuous improvement of our operations and offering to develop our customers' business in a smart way. That's why we are trusted by 40% of the world's precasters.

www.elematic.com



Elematic Oyj • Aiolantie 2, 37800 AKAA, Finland
Tel. +358 3 549 511 • E-mail sales@elematic.com

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