

# AUTOMATED BATCH SOLUTIONS

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Bakery, Pastry & Snacking Industries





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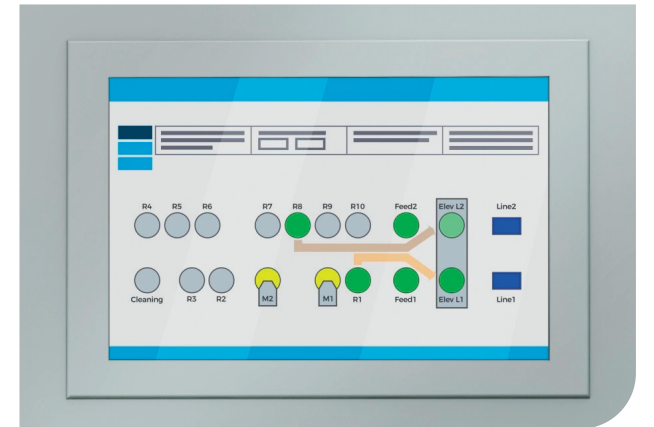
Designed with high productivity in mind, VMI's automated mixing systems can meet the most demanding requirements for process automation and modularity.

- **Recipe versatility:** fork, spiral, continuous or planetary mixers can be integrated into an automated system.
- **Productivity:** up to 8 tons of dough per hour of consistent, fully automated 24/7 production.
- **Customizable and scalable:** From simple manual setups to semi or fully automated systems, with options for number and type of stations, throughput, processes, transfer technologies, ancillary systems, and options at different production scales.

## EASE OF USE AND TRACEABILITY

- Recipe programming with simultaneous management of up to 3 lines and 3 recipes
- Traceability, consumption monitoring, faults report, support for troubleshooting
- Real-time reporting and analytics- Compatible with IoT-enabled Business Intelligence

Octopus Solutions  
VMI connected machines

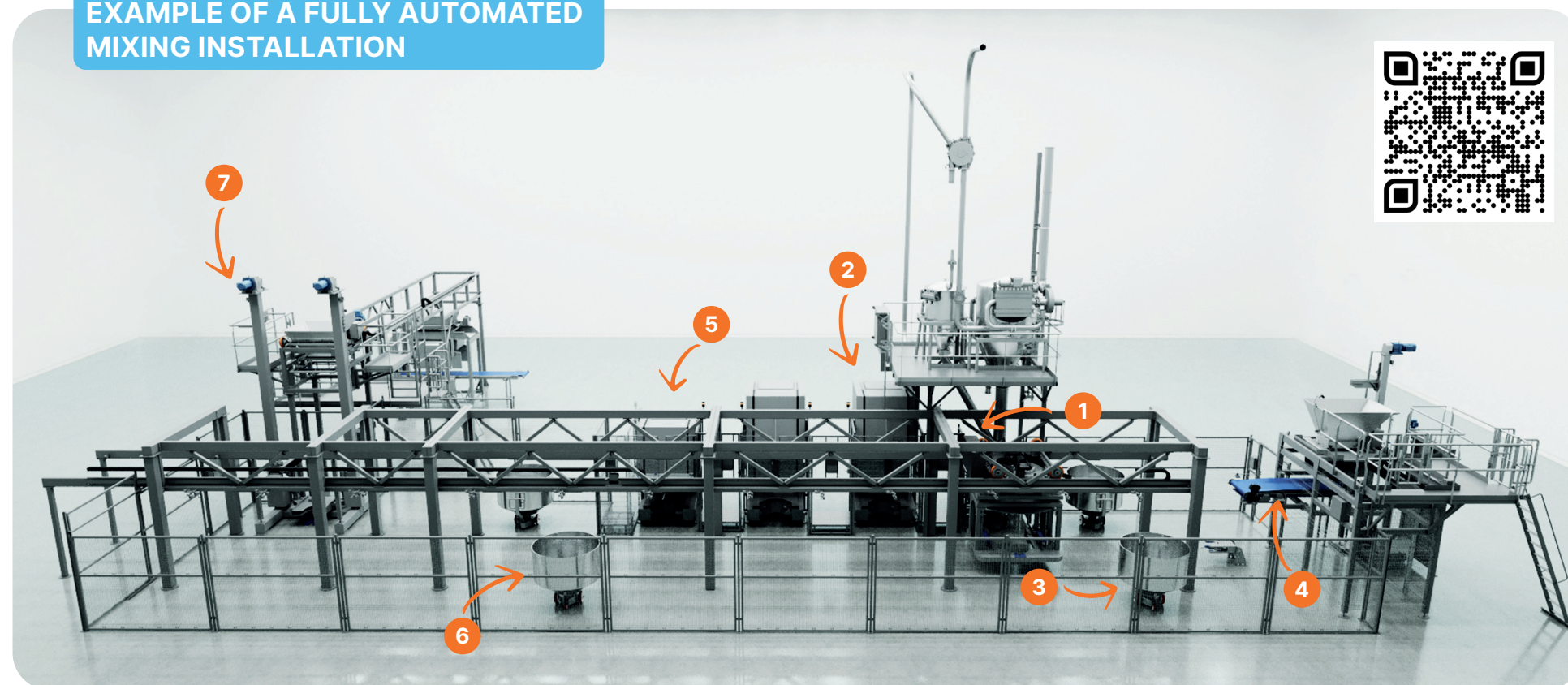


HMI - Example of 2 production lines

## WIDE RANGE OF RECIPES



## EXAMPLE OF A FULLY AUTOMATED MIXING INSTALLATION



Learn more

## HIGH LEVEL OF CUSTOMIZATION POSSIBLE

1. Automated ingredient dosing
2. Pre-mixing
3. Autolysis
4. Scrap dough integration
5. Kneading
6. Resting - Degassing
7. Dough transfer

## PERFORMANCE AND EFFICIENCY

Automated system options:

- **Suspended shuttle(s):**
  - 1 or 2 independent
  - Easy cleaning
- **Ground-based shuttle(s):**
  - 1 or 2 independent, or 1 double
  - High throughput



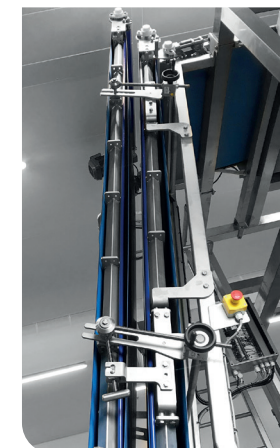
Suspended shuttle



Ground-based shuttle & vertical storage

## MODULARITY AND SCALABILITY

- Dough recovery tray limiting product loss
- Mobile hopper with access platform
- Bowl elevator
- Dough conveyor
- Cleaning station (CIP)



Vertical dough conveyor



Cleaning station

Water consumption  
Cleaning time



# AGV (Automated Guided Vehicle)

## A smart technology to automate production

Our AGV system is designed to increase operational **efficiency** and **productivity**, **overcome challenges** related to skilled **labor shortages**, and ensure **full process traceability** throughout the production line.



HMI  
- Control screen



### Maximum flexibility for your evolving needs

Automate existing manual systems or new setups.

Ideal for facilities with space constraints or challenging environments.



### Safety and ergonomics

Reduce physical strain by minimizing manual handling.

Safe operation alongside workers and other equipment.



### Seamless scalability

Need to increase throughput? Easily adapt to changing production layouts without disrupting your current workflow or requiring major infrastructure changes. AGVs grow with your business.



### Full traceability

Ensures full flow traceability throughout the process.

Every movement is recorded, enabling real-time monitoring and better quality control.