MACHINE VISION

Digital Twin for Industrial

Test, predict, and optimize before it happens in production



MACHINE VISION

Digital Twin for Industrial Operation

In the Industry 4.0 era, manufacturing operations are increasingly complex, yet many factories still lack full visibility, making it difficult to understand performance and predict the impact of changes.

Our **Digital Twin** is a dynamic digital representation of assets, production lines, and plant operations, continuously updated with real-time data. It enables manufacturers to monitor conditions, predict issues, and test scenarios without disrupting production.

With **interactive 3D visualization**, users can explore plant operations, navigate processes, and access data directly from each asset.

Built on a **modular, customizable, and scalable** architecture, the system can start from a single asset and expand across plants or multi-site operations.

Trusted by Leading Companies

PARAGON TECHNOLOGY AND INNOVATION

Panasonic

PT PETROKIMIA GRESIK

KALBE Nutritionals



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Digital Twin for Industrial Operation

- **Better Visibility**
- **Faster Decisions**
- **Less Downtime**
- **Safer Simulation**



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Without Digital Twin

Operational Challenges

- Limited end-to-end visibility across production processes
- Decisions based on assumptions or fragmented data
- Difficulty predicting bottlenecks and system behavior
- High risk when testing changes in live production
- Slow root-cause analysis and reactive maintenance
- Data silos across MES, SCADA, and other systems

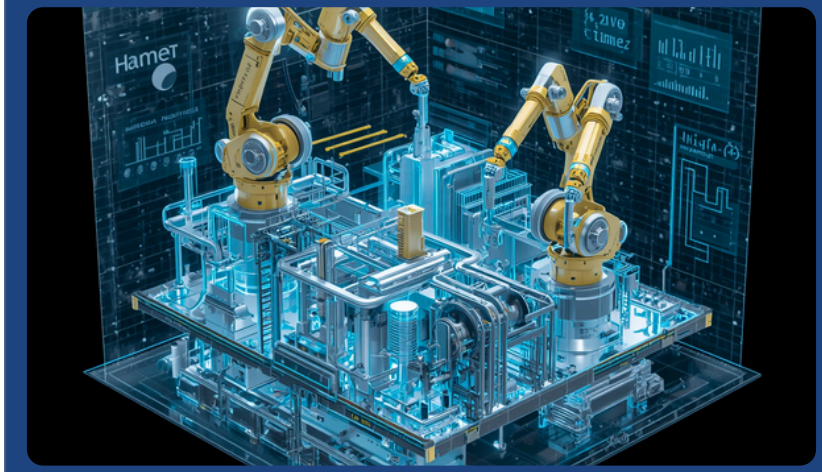
With Digital Twin

Smarter Operations

- Monitor operations in real time with connected data
- Predict bottlenecks, failures, and performance issues
- Run what-if simulations before implementing changes
- Improve root-cause analysis and troubleshooting
- Enable data-driven and model-based decision making

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Key Capabilites MV Digital Twin



Real-Time Digital Twin Monitoring

Continuously synchronize physical operations with digital models using live data.



Process & System Visualization

Visualize assets, production lines, and plant operations through dashboards or 3D models.

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Key Capabilites MV Digital Twin



What-if Simulation & Scenario Analysis

Test different operational scenarios such as production changes, layout adjustments, or scheduling without affecting real production.



Virtual Testing & Optimization

Validate process changes, parameter adjustments, and improvements before implementation.

Integration with Industrial System

Easily integrate with MES, SCADA, PLCs, and other shop-floor system

Trusted by Industrial Leader



































and many more...

8+
years experiences

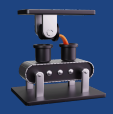
200+
solutions delivered

30+
industrial clients

MACHINE VISION

We are a **Smart Manufacturing Transformation** company established in 2017 with a mission to accelerate digital transformation in the manufacturing sector. Our flagship product, the **MV Digitalization Platform**, is designed to seamlessly connect people, machines, systems, and devices — empowering factories with real-time visibility, actionable insights, and enhanced control across the production value chain.

We specialize in integrating three essential domains:



Lean Manufacturing
Reduce waste, improve efficiency



Information Technology
Scalable digital systems



Operational Technology
PLC, SCADA, sensors & protocols

Contact Us

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