

[silwaMES]

The ideal tool for companies aiming for **agile, flexible, and efficient** production processes, aligned with the challenges of increasingly competitive markets. **silwaMES**, a key component of the **Industry 4.0** paradigm, ensures the optimization of all stages and workflows, while reducing time, waste, and production costs.

[The Software Solution]

- INCREASED AGILITY AND FLEXIBILITY**
 silwaMES enables manufacturing companies to quickly **adapt to market changes**. With real-time visibility into production processes, businesses can implement rapid adjustments and improvements, minimizing response time and enhancing operational flexibility.
 - PRODUCTION PROCESS OPTIMIZATION**
 Optimize production processes by **automating** data collection and analysis. silwaMES helps identify inefficiencies, improve resource allocation, and boost productivity, ensuring streamlined and efficient workflows.
 - REDUCED PRODUCTION TIME AND COSTS**
 silwaMES enables monitoring and control of every stage of production, significantly reducing downtime and operating costs. Process automation and optimized resource management **help minimize waste and maximize efficiency**.
 - RAPID IDENTIFICATION OF CRITICAL ISSUES**
 silwaMES offers comprehensive, real-time operational visibility, allowing for the **quick identification and resolution of production anomalies**. This improves business continuity and minimizes downtime risks.
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- IMPROVED PRODUCT QUALITY**
 silwaMES ensures **consistent product quality through rigorous process control** and material traceability. By monitoring critical parameters in real-time, you can minimize errors and maintain high-quality production standards.
 - INTERCONNECTION BETWEEN MACHINES AND SYSTEM**
 silwaMES facilitates **seamless integration and communication between machines, systems, and staff**. This advanced connectivity ensures a continuous information flow across departments, enhancing collaboration and operational efficiency throughout the entire production chain.

[Features]

- **PRODUCTION PLANNING AND MONITORING**

silwaMES **helps identify inefficiencies and reduce downtime** by optimizing each step of the process according to available resources.



- **REAL-TIME VISIBILITY AND COMPLETE PROCESS MANAGEMENT**

From the production order, silwaMES efficiently manages picking lists and tracks process progress at every stage, based on an integrated production layout with logistics mapping. It monitors essential data such as **consumption, time, costs, and resource usage**, empowering staff to make informed decisions for **workflow optimization**.

- **PROCESS SIMPLIFICATION AND ADVANCED REPORTING**

silwaMES **simplifies and provides full transparency in production processes**, helping identify bottlenecks and eliminate hidden costs. It generates detailed reports on all vital production parameters for enhanced decision-making.

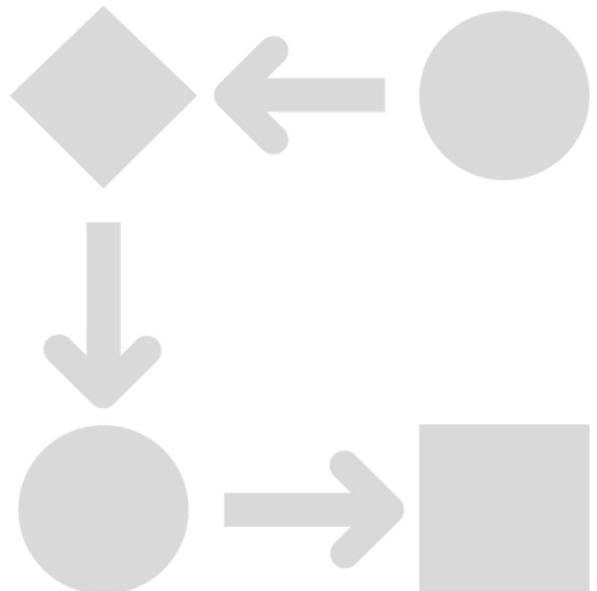
[Technologies, Devices, Platforms]

silwaMES is developed using Microsoft technologies, including .NET and .NET MAUI, and is supported by the following platforms:

- Microsoft SQL Server database
- Supported Server Operating Systems: Microsoft Windows Server
- Supported Client Operating Systems: Microsoft Windows, Microsoft Windows Embedded
- Supported Mobile Operating Systems: Microsoft Windows, iOS, Android

The solution supports various devices, including:

- Handheld and vehicle-mounted RF (radio frequency) devices
- Smart devices (smartphones, tablets)
- Fixed workstations
- Cameras
- Sensors



Preferred Partner

TOYOTA

MATERIAL HANDLING



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