



Your benefits ■ ■ ■

Scalability – Ability to enhance your solution by adding new printers and packaging lines as well as new application functionalities. Initial investment is secured even when the business requirements change.

Cost reduction – Improvement of total cost of ownership by minimizing human error, eliminating risk, ensuring code accuracy and preventing costly reworks or recalls.

Data management – Central management of messages, labels and data on a secured server. Link to enterprise database or ERP to retrieve product information.

Operation optimization – Lessens changeover time, automates printing tasks and optimizes production data flows from system to printers.

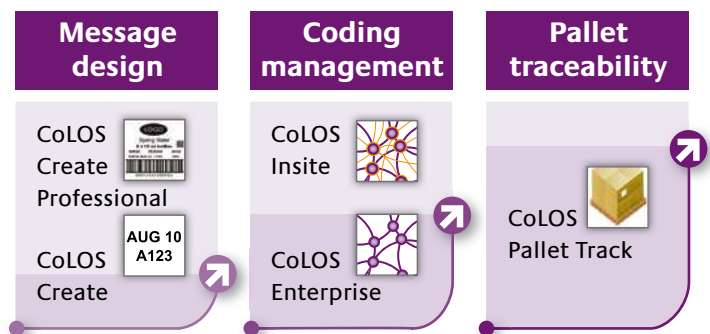
Compliance with industry standards – Creation of codes that comply with worldwide supply chain standards (GS1).

Seamless integration – Easy connection to your production control systems: Manufacturing Execution Systems (MES) and Warehouse Management System (WMS).

Our expertise ■ ■ ■

Software solutions are key to reducing packaging costs, optimizing product coding activities and meeting regulatory compliance. Markem-Imaje offers a wide range of innovative software applications engineered to complement our coding equipment. CoLOS software is compatible with all Markem-Imaje printers allowing customers to link, manage and operate all printers throughout the plant.

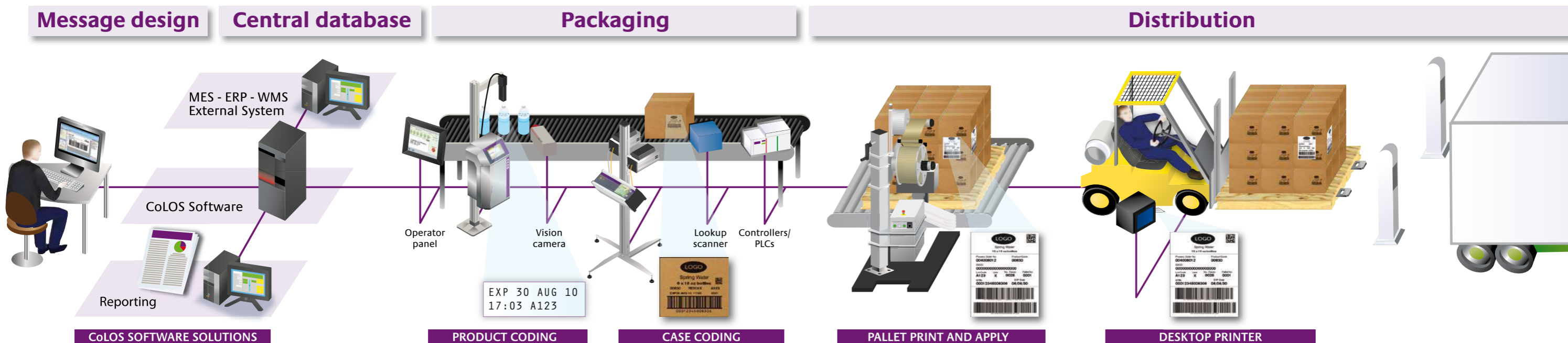
Our three levels of expertise include:



Equipped with a .NET platform and compatible with all Markem-Imaje printers, CoLOS 5 is an upgradeable software suite covering a broad range of needs from message creation to management of pallet traceability applications. It allows for the management of coding data, printer control and as well as task automation during production. Its architecture allows it to be easily integrated into the customer's existing production facility. Markem-Imaje specialists support their customers throughout the project: initial assessment of requirements, implementation and follow-up of the solution, with regular updates.



CoLOS 5 capabilities from packaging line to distribution to supply chain ■ ■ ■



Message design

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CoLOS Create ■ ■ ■

Offers intuitive software to design simple messages for Markem-Imaje printers. It allows you to:

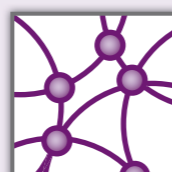
- Easily design simple messages composed of few lines of text (date, lot, time...) with no training.
- Transfer the messages to the printers via Ethernet network or USB memory stick.
- Optimize message creation for ribbon saving on SmartDate® printers.

CoLOS Create Professional ■ ■ ■

Satisfies all message design and management needs for all your Markem-Imaje printers. It allows you to:

- Design and manage complex labels and codes via a WYSIWYG PC interface.
- Link to database to feed message layouts with product information.
- Generate GS1 compliant 1D and 2D codes.

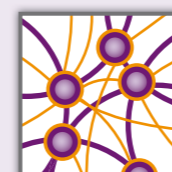
Coding and data management



CoLOS Enterprise ■ ■ ■

Networks and operates multiple printers through the factory and provides a powerful data management system. It allows you to:

- Centrally manage a unique base of messages and labels on a secured server.
- Connect to your enterprise database or directly import data from the ERP system.
- Secure the selection of data to print by reducing human input, automating tasks and coordinating the start of multiple printers for a production batch.



CoLOS Insite ■ ■ ■

Extends CoLOS Enterprise for advanced integration and reporting. It allows you to:

- Be more flexible as to import data from your ERP in various formats.
- Fully integrate into product handling devices, weight scales and Programmable Logic Controllers (PLCs) for automated error handling.
- Generate a report of critical production information.

Traceability



CoLOS Pallet Track ■ ■ ■

Establishes unique pallet identity needed for tracking pallet movement through your supply chain processes. It allows you to:

- Automatically handle all types of pallets (full, partial, multiple stack and exceptions).
- Generate or use customer supplied SSCC/LPN codes to identify each pallet with a unique code.
- Identify pallets from multiple palletizer lines and manage the queue from palletizer to label applicator.
- Report in real time the printed SSCC codes to the host and generate reports of pallets produced.

An experienced team with a proven methodology ■ ■ ■

Markem-Imaje offers more than software – our experience in product identification. Our industry-leading experts handle all aspects of your product identification project, from the initial needs assessment to after-sales support. We are capable of meeting a wide diversity of applications to maximize your production line efficiency while minimizing overall costs.

1 – Assessment

Markem-Imaje experts analyze your business requirements:

- Analyze the material and data flow changes needed.
- Define the most appropriate configuration of CoLOS for your application.
- Define mutual roles and responsibilities.
- Develop an implementation plan that allows you to purchase what is needed today and secure your software investment in the future.



2 – Implementation

Markem-Imaje provides a single point of contact for the installation process:

- Configure the hardware and software to address your product identification requirements.
- Ensure that the data is migrated accurately and correctly.
- Follow a detailed plan to ensure quality in each step of the process.
- Train your message designers, operators and maintenance staff on the use of CoLOS.
- Perform acceptance testing to ensure the system operates as expected.

3 – Support

Markem-Imaje's global support team is familiar with your application. Dedicated specialists offer you remote support via remote access and on-site support whenever required through a single point of contact. Additionally, Markem-Imaje offers proactive support programs for the following actions:

- Upgrade your existing applications.
- Add new application functionality when required while securing the initial investment.
- Maintain programs and IT audits to ensure total systems performance and best total cost of ownership.

To learn more, visit www.markem-imaje.com



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