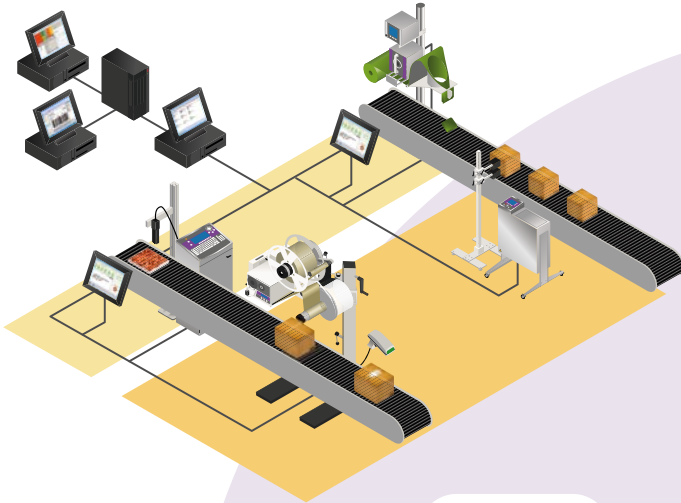


# CoLOS<sup>®</sup> Enterprise 5.0

network control and message design software ■ ■ ■

## Our expertise ■ ■ ■

CoLOS<sup>®</sup> Enterprise 5.0 is a state-of-the-art software and part of a scalable suite of standard software and networking solutions. CoLOS<sup>®</sup> Enterprise is an open and flexible software that combines both CoLOS<sup>®</sup> Create Professional for message design and CoLOS<sup>®</sup> Control for networking multiple printing equipments. CoLOS<sup>®</sup> Enterprise allows to link, manage and operate all printers throughout the plant. It contributes to ensuring product data integrity and optimizing coding activities. It helps secure centralized data management system capable of meeting a wide diversity of needs.



## Your benefits ■ ■ ■

**Message design** – Complex message and label creation from a user-friendly interface on your office PC outside the production floor.

**Central data management** – Central management of a unique base of messages and labels. Link to your enterprise database allowing the retrieval of all product variable data.

**Secured production batch start up** – Secured selection of data to print by using a simplified user interface, reducing human input and automating the tasks. Printer coordination by group when starting production batches.

**Seamless integration** – Easy connection to your existing database via standard Open DataBase Connectivity (ODBC) interface. Optional Open Protocol Connectivity (OPC) support to help you integrate your production control systems.



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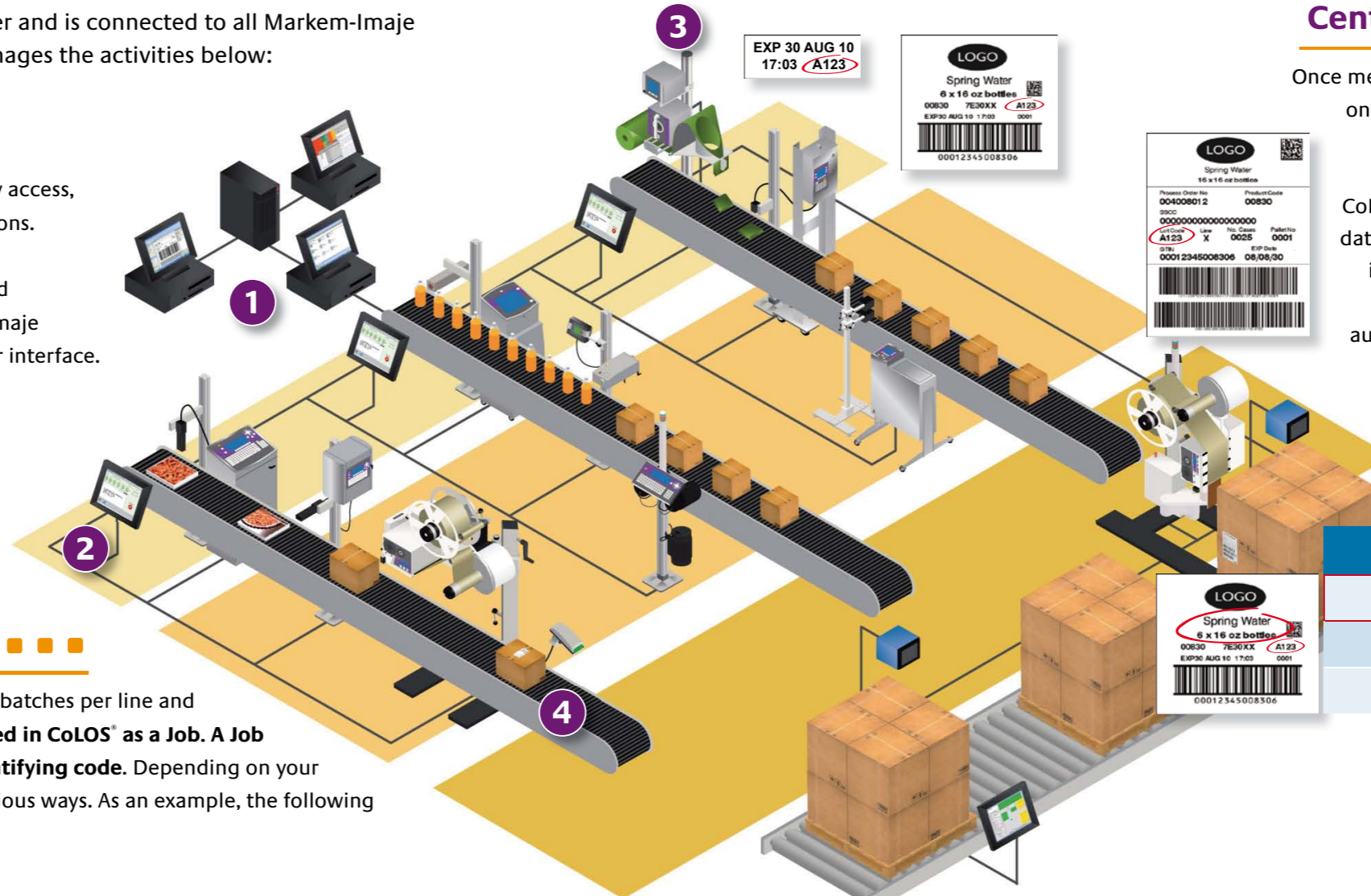
the team to trust ■ ■ ■

CoLOS® Enterprise is installed on a central PC or server and is connected to all Markem-Imaje printing equipment in the factory. This software manages the activities below:

## Message design ■ ■ ■

The Client-Server function on CoLOS® Enterprise gives easy access, from your office PC, to message design software applications.

With CoLOS® Create Professional, you can easily create and manage complex label and code designs for all Markem-Imaje printers via a unique user interface.



## Central data management ■ ■ ■

Once message designs have been prepared in advance on CoLOS® Create Professional they can be stored on a secured central location on the server.

CoLOS® Enterprise is connected to your enterprise database via Open DataBase Connectivity (ODBC) interface to get all the production information (product variable data). The software then automatically fetches the information relative to the variable fields to make up the message.

Job ID	Product type	Quantity
A123	Spring water	6 x 16 oz bottles
A124	Grapple juice	6 x 16 oz bottles
A125	Lemon juice	6 x 16 oz bottles

## Secured production batch start up ■ ■ ■

CoLOS® Enterprise enables secured start-up of production batches per line and reduces human errors. **Each production batch is identified in CoLOS® as a Job. A Job can be a work order, an article code, or any unique identifying code.** Depending on your needs, the selection of the Job to print can be done in various ways. As an example, the following options can be considered:

### 1 From a central PC

The Job selection is done at the workshop level from a central PC using the user interface of CoLOS® Enterprise :

- 1 The production line is selected.
- 2 The Job linked to the production to be launched is selected.
- 3 The operator can select the variable data options (expiry date, batch number, etc.). The data are applied to all the printers on the line.
- 4 The content of the message is checked via the WYSIWYG preview option. The download is validated.
- 5 The messages are transferred to the respective printers on the line.

> **This mode enables starting the production batches line by line, from a central point.**

### 2 From a line PC

The Job selection is done via a simplified user interface from local Client PC stations installed at the line level. The Client PCs must be connected to the server of CoLOS® Enterprise via the Ethernet network:

- 1 The Job linked to the production to be launched is selected.
- 2 The operator can select the variable data options (expiry date, batch number, etc.). The data are applied to all the printers on the line.
- 3 The content of the message is checked via the WYSIWYG preview option. The download is validated.
- 4 The messages are transferred to the respective printers on the line.

> **This mode enables starting the production batches locally at the line level.**

### 3 From a printer user interface

The Job selection is done directly via the printer user interface\*:

- 1 The Job linked to the production to be launched is selected.
- 2 The messages are transferred from the server of CoLOS® Enterprise to the respective printers on the line.

> **This mode enables starting the production batches locally at the line level without additional PC equipment.**

\* Please check if this mode is available on your printers

### 4 From a hand scanner

Each Job is identified by a barcode. A hand scanner is installed on each line and connected to the server of CoLOS® Enterprise :

- 1 The barcode corresponding to the production to be launched is scanned.
- 2 The barcode can optionally include some variable data (expiry date, batch number, etc.). The data are applied to all the printers of the line.
- 3 The messages are automatically transferred to the respective printers on the line.

> **This mode enhances security by eliminating manual data entry.**

## To go further ■ ■ ■

### • Integration with third party applications

Optionally, CoLOS® Enterprise is also capable of fully integrating your production control system (Programmable Logic Controller (PLC), Manufacturing Execution System (MES), customized applications, etc.). To enable you to integrate CoLOS® Enterprise to your infrastructure, Markem-Imaje can provide additional plug-ins (Open Protocol Connectivity (OPC) and Command Line Interface). In this scenario, CoLOS® Enterprise runs in the background and acts as an interface between the production control system and the Markem-Imaje printing equipment.

### • Pallet Labeling Solutions

Additionally, Markem-Imaje can also provide standard configurable solution powered by CoLOS® for pallet labeling applications. This option requires a dedicated team from Markem-Imaje. This is scalable across palletizer lines and can be easily integrated onto your Enterprise Resource Planning (ERP) or Warehouse Management System (WMS).

## Coder and printer support ■ ■ ■

Direct native control of unlimited Markem-Imaje coders and printers:

- 2000 Series (CimJet and 2000 Series)
- 4000 Series (4020)
- 5000 Series (5200, 5400, 5600 and 5800)
- 7000 Series (SmartLase 110, SmartLase 130, 7011 and 7031)
- 8000 Series (SmartDate)
- 9000 Series (9020, 9030, 9040, 9232)
- Datamax Series

## Coder and printer control ■ ■ ■

- Ability to send specified Job files to targeted printer groups
- Ability to remotely select the Job from CoLOS<sup>®</sup> Enterprise server: from barcode scanner, Client PC stations or printer user interface (depending of printer)
- Web based simplified user interface to operate the system in a production environment

## Coder and printer monitoring ■ ■ ■

- Real time printer status
- Message currently being printed
- Product counter
- Event logging

## GS1 barcodes ■ ■ ■

- EAN 8/13
- UPC A/E
- Code 128
- EAN 128
- Code 39
- ITF (Interleaved 2 of 5)
- QR
- Datamatrix
- GS1 Databars
- Others available

## Data management ■ ■ ■

- Centralized access to messages and labels, databases and graphic files
- Internal Job Database editor
- Support for Open DataBase Connectivity (ODBC) data sources
- Data logging to database or file

## Administration ■ ■ ■

- Includes 2 simultaneous users – additional users can be easily added
- Multi-level secure user access: designer, operator, supervisor, observer, administrator

## Languages ■ ■ ■

- English
- Chinese
- Dutch
- French
- German
- Italian
- Japanese
- Polish
- Portuguese (Brazilian)
- Spanish

## System requirements ■ ■ ■

- 1 GB RAM or higher Microsoft Windows XP SP2, 2003 SP2, Server 2008, Vista SP1, Windows 7
- Intel 3.0 GHz or higher
- Color VGA display and Windows compatible pointing device
- Requires Microsoft .NET Framework 3.5

## Industrial connectivity ■ ■ ■

- Ethernet TCP/IP
- RS232, RS485
- USB
- OPC server
- Command Line Interface

To learn more, visit [www.markem-imaje.com](http://www.markem-imaje.com)

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