Coding Integrity (CI) Solutions provide an automated, scaleable coding system to ensure the right code is on the right package, case and pallet every time, thus minimizing coding errors.

By combining our highly reliable networked printers with our integrated CoLOS® software, you can effectively match your work order to scanned or keyed GTIN, automatically updating your coding network with the correct information.

CoLOS® Coding Integrity provides:

- **Brand Protection** – barcode scanners and vision systems ensure legible codes on the packaging are printed and verified.
- **Eliminate human errors** – No more “Fat Finger” of information at the coder/printer level. All information is easily entered at a centralized PC to ensure the user experience is consistent from one type of printer model to another.
- **Reporting** – production and print counts per order are captured and optionally linked to ERP or WMS systems.

**Your benefits**

**Scaleability** – Solutions can be integrated at specific packaging points (unit, tray, case, pallet, etc.) or can encompass complete production lines from units to pallets, as well as multiple production lines in each facility.

**Accuracy** – Automated process eliminates coding errors which can incur product rework and retailer fines.

**Compliance** – Manages mandated human readable “best before” date codes required by retailers and regulators with consistent, readable information.

**Standards** – Complies with all GS1 (UCC-EAN) labeling standards and utilizes OPC open connectivity protocols to connect with PLCs and 3rd party devices.

**Reliability** – Reduces errors and downtime on production lines while improving operational efficiency.

**Our solution**

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Solution components

- CoLOS® Software Modules. Easy-to-use user interface with optional integration to WMS, MES, ERP systems, as well as standard CoLOS® MS SQL 2003/2005 databases.
- OPC server. Omni-server OPC for easy connectivity to PLC, automation controls, scales, and conveyors.
- Printers and Label Applicators. Select from Markem-Imaje thermal transfer printers, CO2 laser, small & large character inkjet (hot melt and liquid piezo), plus a variety of print and apply labeler models.
- CoLOS® Enterprise. Design code and label formats. Control Markem-Imaje and select non-Markem-Imaje coders/printers.
- Verification Systems. Ability to integrate barcode readers or vision systems for automatic product look-ups as well as for print and in-line packaging verification.
- Proven Implementation methodology. Process analysis, project management, configuration, implementation, training and support.

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