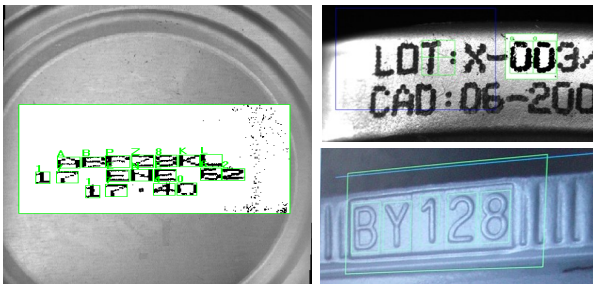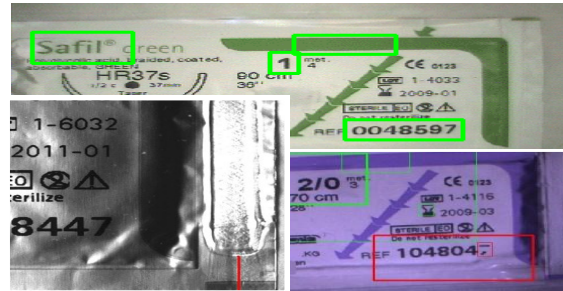# VERIFITEXT
VERIFICATION OF MARKED CODES & LOTS.
ALL KIND OF MARKINGS, ALL KIND OF CODES

Lot and Date code verification on caps & cans

Code verification on medical pouches

Code verification on barcodes

4 123456 678905

E2M

ORIENTING | **INSPECTING** | **REJECTING**

ANY KIND OF EMPTY OR FULL BOTTLES AND CONTAINERS

Inspection of marked codes on cans & other containers

Machine vision for in-line & real time inspection of 100% of the production

As a can passes through the inspection enclosure, the system gets a high resolution image of the marked surface. Bad marked units are detected and rejected.

General description

Turnkey in-line solution assembled over an existing conveyor for inspection of marked containers:
- strategy:
  - machine vision: image of the marked surface
  - inspection: 100% of the units produced, without physically handling them
- technical approach:
  - ink jet printing, ink pad, thermal transference, laser...
  - (optional) pneumatic rejection of defective units
- inspection:
  - applies to visually detectable marked codes
  - All kind of codes and text: lot, date, EAN codes, Data-Matrix codes

Canning line:
- high performance lines
- constant flow of inspected cans

Structural features

Camera and lightning system in a stainless steel enclosure (as well as a container detector) .
PC and Control Rack (with electronics cards plugging created by E2M, with the power supply, CPU and others I/O modules of input/output for the signals treatment, and managing, computer with a video acquisition card to capture images, Ethernet card, a 17" TFT screen and trackball keyboard
- in-line, freestanding, turnkey system:
  - vibration free conveyor w/ modular slat
  - reject-confirmation system (optional)
- easy installation over existing conveyor
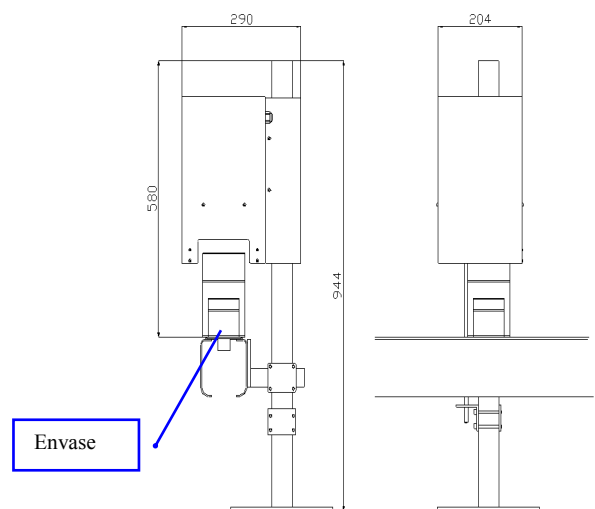
Optical design:
- Compatibility with:
  - different products and design patterns
  - a range of different cans

Electronic features.

- Maximum production 800 cpm. 48.000 cph
- Conveyor high speed .... …………….…... 3m/s
- 1 Camera B/W CCD 1296x964,
- Images acquisition card for PCI bus, Euresys, Imaging or the most convenient.
- LED based front light: adjustable intensity
- Modem, USB, Ethernet, dial-in
- Intel Dual-Core Pentium D
- WinXP based user interface

Benefits and advantages

- In-line inspection of :
  - 100% of the production units
  - non destructive
  - free of physical can handling
- False accepts ratio is near 0
- User friendly interface
- Easy to parameterize
- Inspection accuracy is adjustable by the user
- Only basic training required
- Easy and quick format changeover
- Remote control (Ethernet)
- Online Remote Service from E2M
- Production statistics
- Management of rejection and upstream signals

290

204

580

944

Envase

E2M

E2M also designs custom systems to accommodate specific needs of each client.
Data subject to modification without prior notice, according to technical advance and product development.