



FTSYSTEM

INSPECTION FOR QUALITY

FULL LABEL INSPECTION

IE4000-IoT | Based on real 3D Reconstruction Engine

The IE4000-IoT allows to inspect any type of labelling, at full speed of production and without the orientation of the containers. This system guarantees the perfect image of each single product and it monitors the performances of the labeller, alerting in case of anomalies before generating rejections.

Easy, complete and modular.

3D Full Label inspection



IE4000-IoT Series [VA]

The system recreates the image of the labelling in a wholly automatic and repetitive way. The picture is based on a 3D model. As a result, there's the real image of the surface unwrapped on a plane.

So it is possible to avoid the manipulation typical of traditional systems, which return distorted and unstable pictures because they're affected by the natural variability of the products in terms of shape and positioning on the conveyor.

This system offers a set of standard analysis ensuring the compliance of all the most important features of the labelling.

The modularity of the software allows to enhance the protection degree by adding just the inspection modules you need, thus guaranteeing the maximum effectiveness on your specific product and maintaining the system reliable, easy to use and fast to set up.

STANDARD INSPECTION

[depending on configurations]

- LABEL PRESENCE
- LABEL MATCHING
- LABEL POSITIONING (VERTICAL, HORIZONTAL, ROTATION)
- LABEL AXIALITY [BETWEEN LABELS]
- OPTIONAL INSPECTIONS
 - EMOSS-LABEL AXIALITY
 - CORRECT POSITIONING OF LABELS AGAINST
 - THE EMOSSSED ELEMENTS OF THE BOTTLES
 - 2D CODE READING [BARCODE, DATAMATRIX, QR-CODE]
 - CODE INTEGRITY [LOT, EXPIRATION DATA, OTHER ALPHANUMERICAL]
 - OCR - CODE READING [LOT, EXPIRATION DATA, OTHER ALPHANUMERICAL]
 - LABEL SURFACE ANALYSIS
 - INTEGRITY [MISSING PART, DEFECT, HOLE, FOLDS/WRINKLES, ...]
 - DETAILS [ALCOHOL CONTENT, YEAR, LOGOS, ...]
 - CAPSULE/CAP CHECK [COLOR, VERTICAL POSITION, ...]

FEATURES

- Machine vision technology
- Real 3D reconstruction engine
- System independent of the containers orientation
- Inspection of labelling of square or round based containers**
- Simple and intuitive system for the creation of the formats, setting of the analysis in a graph, -based on the real-acquired image
- Automatic learning system for good product calibration values

ADVANTAGES

- IMPROVE PRODUCTIVITY
 - Reduction of the number of rejects in case of malfunctioning of the labeller through the control on consecutive rejects
 - Optimization of the adjustment and maintenance of the labeller
- IMPROVE QUALITY
 - Eliminate customer complaints related to label wrong positioning
 - Guarantee of correct labelling (positioning and printing)
 - Guarantee of label integrity, compliance, correct codes printing on the labels
 - Ensure product quality

TYPE OF CONTAINER

- Round or square based containers completely labelled

* For squared base bottles orientation is required

** Different inspection tools and precisions for cylindrical bottles and squared based bottles



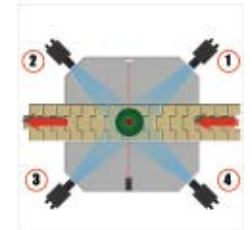
Clear and intuitive interface



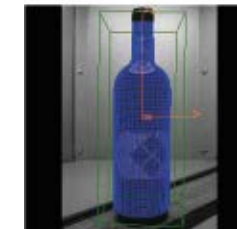
Easy graphical settings



4 synchronous cameras acquisition



Principle - Acquisition camera



3D modeling



Principle - Dome for uniform lighting



First reconstruction



Final reconstruction





FTSYSTEM

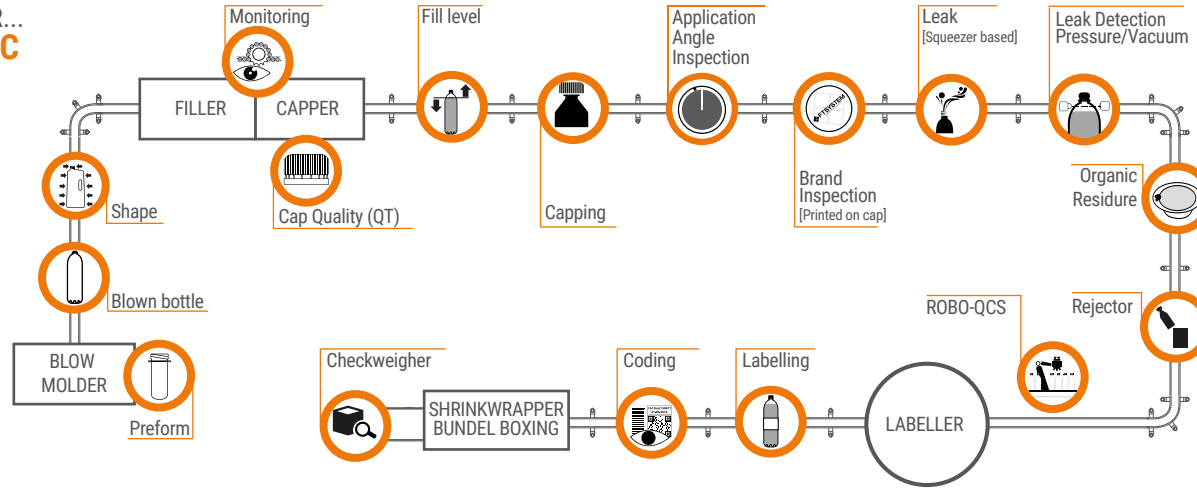
INSPECTION FOR QUALITY

CHOOSE YOUR SOLUTION

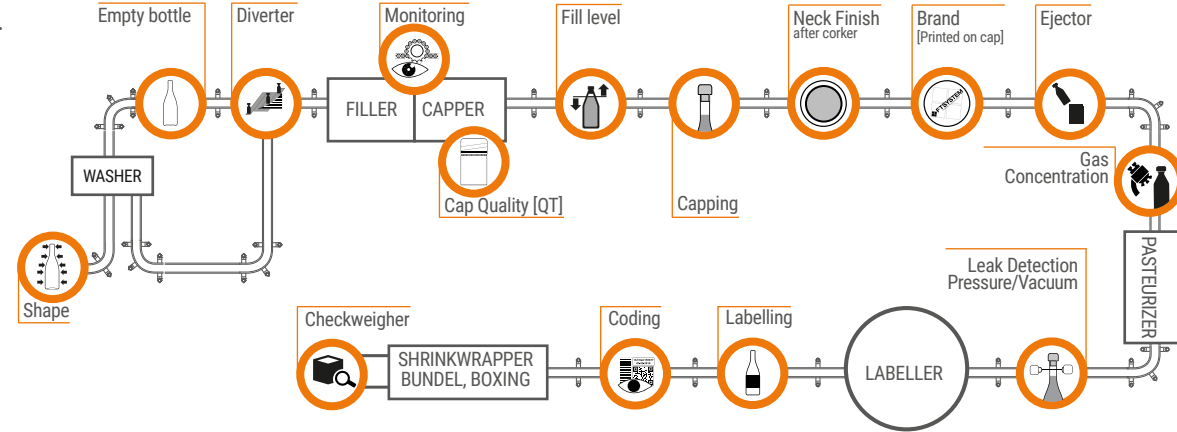
FT SYSTEM HAS A COMPLETE RANGE OF INSPECTION AND TRACKING SYSTEMS

in order to ensure the high quality of your product allowing the optimization of your production reducing costs

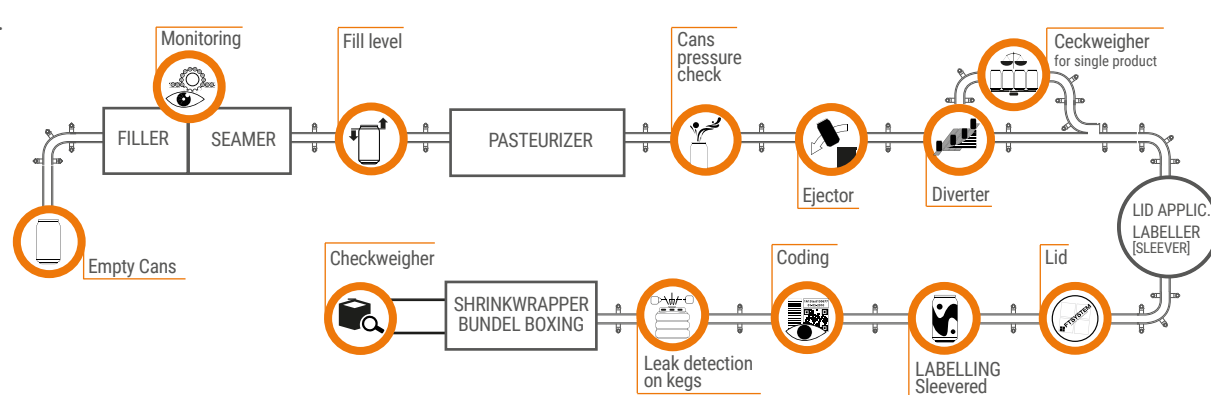
FOR YOUR... PLASTIC LINE



FOR YOUR... GLASS LINE



FOR YOUR... CANS LINE



FOR YOUR... LABORATORY NON-DESTRUCTIVE ANALYZERS

EVO-C02
Total pressure
CO2 Partial
pressure
CO2 dissolved

EVO-O2
O2 concentration
[NON pressurized
products]

EVO-TRACE
Very low
concentration
of CO2

EVO-N2
Total Pressure
[Nitrogen dosed
products]

EVO-V
Vacuum level
[Hot-filled and
pasteurized
products]

EVO-P
O2 concentration
CO2 concentration
[Bags & Trays]



FT SYSTEM
HEADQUARTER
 Via L. Da Vinci, 117
 29010 Alseno (PC) - ITALY
 +
LPRO
Laser Spectroscopy division
 Via Torino 1/L
 35035 - MESTRINO (PD) - ITALY

ANTARES VISION
HEADQUARTER
 Via del Ferro, 16
 25039 Travagliato (BS) - ITALY

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 line efficiency needs.

