



**FTSYSTEM**

INSPECTION FOR QUALITY

## EMPTY CONTAINERS

Empty Bottles  
Empty Cans



# Empty bottles inspection

IV700/1000-IoT Series [ VA | HF/RX ]

Ideal to ensure the quality of empty containers, before the filling process. It reduces the number of jams and rejects due to the presence of contaminants, imperfections or defects in the empty bottles.

The system performs the inspection of the empty bottle to ensure their compliance and quality before the filling process.

## STANDARD INSPECTION

[depending on configurations]

- ✓ BOTTLE SHAPE verification at machine infeed
  - ⊙ Detection of broken or damaged containers
  - ⊙ Bottles/Containers height ckeck
- ✓ NECK FINISH inspection
  - ⊙ Scratches, bubbles, Surface defect
  - ⊙ Deformations, Ovalization, wrong diameter
  - ⊙ Foreign objects, dirt, ...
- ✓ THREAD inspection
  - ⊙ Scratches, bubbles
  - ⊙ Integrity
- ✓ BOTTLE BASE inspection
  - ⊙ Foreign objects
  - ⊙ Cracks, holes
- ✓ SIDEWALLS inspection - DOUBLE MODULE [Inlett - Outlet]
  - ⊙ Bottles shape matching
  - ⊙ Bubbles, cracks
  - ⊙ Foreign objects, dirt, ...
  - ⊙ Deformations [slating neck, bird wings, ...]
  - ⊙ Scuffing detection
- ✓ RESIDUAL LIQUID detection
  - ⊙ Depending to the liquid are available different technologies [High Frequency, Infrared, Xray]

## FEATURES

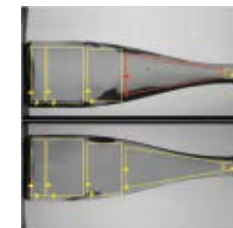
- ✓ Machine vision technology
- ✓ Independent of the color of container
- ✓ Residual liquid detection with high frequency module
- ✓ Controlled rotation of the container for the inspection of the wall at machine exit with variable angle of 90 °
- ✓ Mechanical equipment located in a separate upper area of the machine to permit system to be washed down and allow easier access to parts
- ✓ Up to 60000 Bot./hour

## ADVANTAGES

- ✓ IMPROVE PRODUCTIVITY
  - ⊙ Reduction of the number of filler and capper damages and jams
  - ⊙ Reduction of the number of filled bottle rejects
  - ⊙ Reduction of the number of rejected containers due to the function that returns to the rinser all bottles intact but having dirt defects
  - ⊙ Reduction of the number of "line stop"
- ✓ IMPROVE QUALITY
  - ⊙ Reduction of customer complaints related to product leak or presence of foreign objects contamination, wear or containers damaged.

## TYPE OF CONTAINER

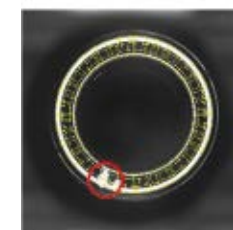
- ✓ Transparent and rigid bottles or containers



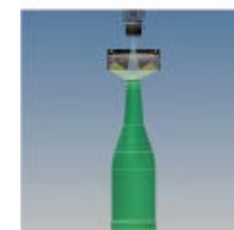
Sidewalls



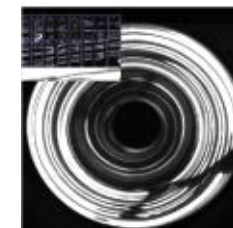
Principle – Sidewalls



Neck finish



Principle – Neck finish



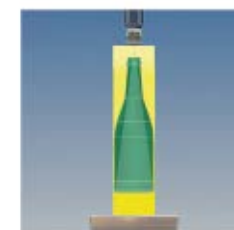
Thread



Principle – Thread



Bottom



Principle – Bottom

Ideal to ensure the quality of empty cans, before the filling process.  
The system improves final product quality and reduces the number of jams and rejects due to the presence of imperfections.

## Empty cans inspection



I0700-IoT Series [ VA ]

The system is available in different configurations in order to meet the need for detecting dimensional defects and foreign



### STANDARD INSPECTION

[depending on configurations]

- ✓ FLANGE inspection
  - Defects and deformations
  - Ovalization
  - Up-side down can
  - Damage
- ✓ BOTTOM AND INTERNAL WALLS inspection
  - Foreign objects
  - Damages
- ✓ RESIDUAL LIQUID detection
  - Washing residual liquid detection

### FEATURES

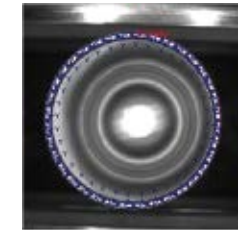
- ✓ Machine vision technology
- ✓ Residual liquid detected with X-ray module

### ADVANTAGES

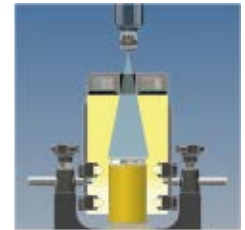
- ✓ IMPROVE PRODUCTIVITY
  - Reduction of the number of filler and stapler damages and jams
  - Reduction of the number of filled product rejects
  - Reduction of the number of "line stop"
- IMPROVE QUALITY
  - Reduction of customer complaints related to product leak or presence of foreign objects contamination
  - Ensure product quality

### TYPE OF CONTAINER

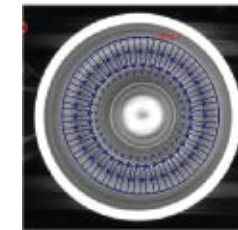
- ✓ Cans or containers with similar shape and opaque



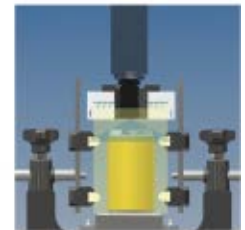
Flange



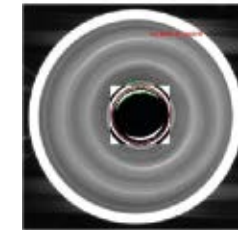
Flange principle



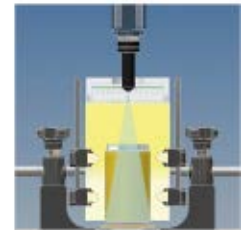
Sidewalls



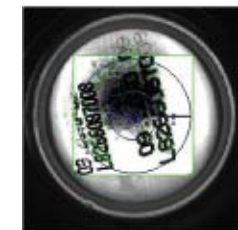
Sidewalls principle



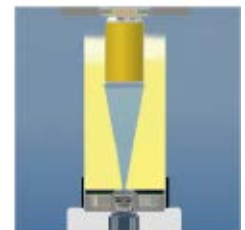
Bottom



Bottom principle



Code on bottle bottom



Principle - Code



# FTSYSTEM

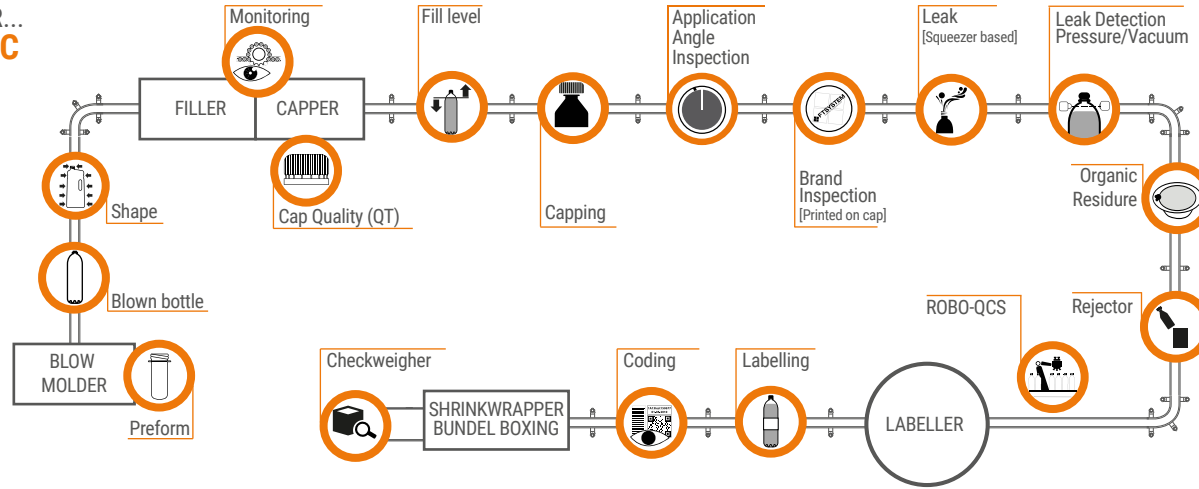
INSPECTION FOR QUALITY

## CHOOSE YOUR SOLUTION

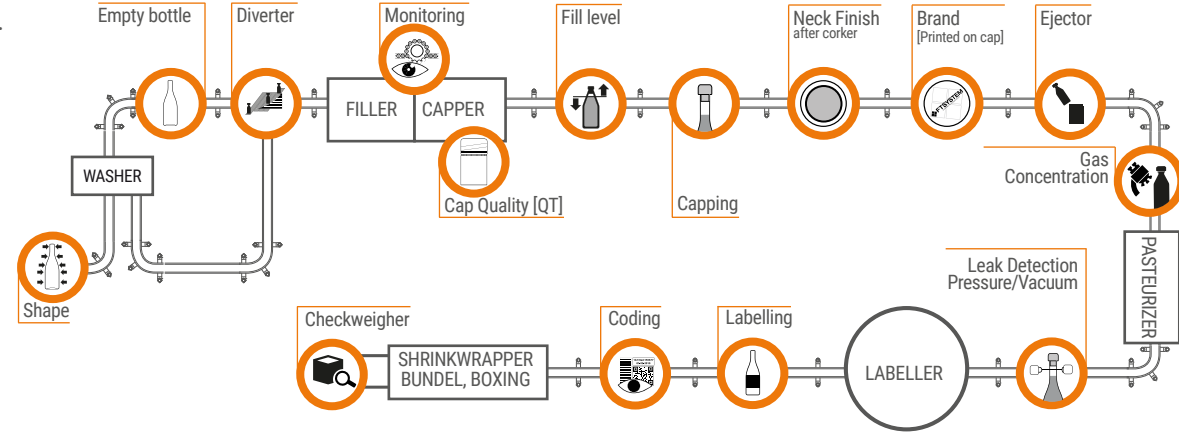
FT SYSTEM HAS A COMPLETE RANGE OF INSPECTION AND TRACKING SYSTEMS

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

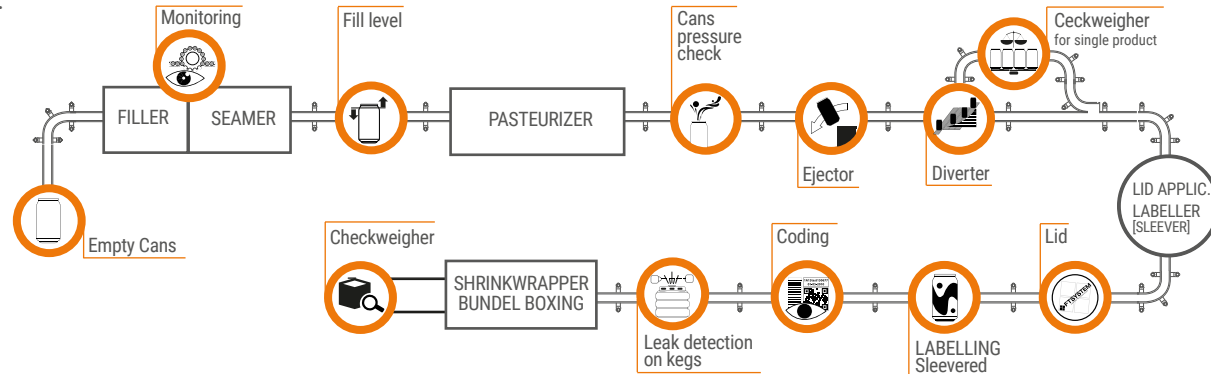
### FOR YOUR... PLASTIC LINE



### 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

**19 COMPANY SITES**

- ♥ ITALY
- ♥ FRANCE
- ♥ SPAIN
- ♥ UK
- ♥ IRELAND
- ♥ GERMANY
- ♥ RUSSIA
- ♥ USA, CANADA
- ♥ MEXICO, LATAM
- ♥ BRAZIL, LATAM
- ♥ INDIA
- ♥ CHINA
- ♥ SOUTH KOREA
- ♥ ASIA PACIFIC

30+ LOCAL PARTNERS  
 60+ COUNTRIES SERVED  
 + R&D SITES

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 line efficiency needs.

