FTSYSTEM
control & inspection

EBI
EMPTY BOTTLE INSPECTION

ftsystem.com
Ideal to ensure the quality of empty containers and reduce the number of jams and rejects due to the presence of contaminants, imperfections or defects in the empty bottles.

MAIN FUNCTIONS

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

STANDARD INSPECTION
[depending to the configurations]

✔️ BOTTLE SHAPE verification at machine infeed
   ✔️ Detection of broken or damaged containers
   ✔️ Bottles/Containers height check

✔️ 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 - Outlett]
   ✔️ 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, Infared, 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

Feasibility and accuracy of the system indicated in the FT System’s official Technological Warranties.
FTSYSTEM HAS A COMPLETE RANGE OF CONTROL AND INSPECTION SYSTEMS in order to ensure the high quality of your product allowing the optimization of your production reducing costs.
FT SYSTEM

Founded in 1998, FT SYSTEM has specialised in the design and production of quality control monitoring systems along the entire bottling and packaging line. From the inspection of empty containers and caps to the fill levels, from the accurate capping to the leakage detection, from measuring the internal pressure of the container to the weight control, the label checking to laboratory analysis, FT SYSTEM guarantees the quality of your packaging products by optimising production and cost reduction.

INTEGRATED AND TOTAL QUALITY SOLUTIONS

The simple and intuitive multiple inspection stations along the entire packaging process can also be integrated into a single control panel for a total overview of the quality and production performance.

CONSTANT RESEARCH

The heart of FT SYSTEM is its R & D team, assisted by a developed network of partnerships with universities and international research centers, dedicated to the most innovative and non-destructive inspection technologies: high frequency, X-ray, infrared, optical, laser, artificial acoustic and visual analysis.

GAS SENSING

L PRO-GAS SENSING is a FT SYSTEM patented technology dedicated to laser spectroscopy. A revolutionary and innovative method, which has enabled the design and the realization of non-destructive instruments of analysis and measurement of gas inside closed containers. The main fields of application of L PRO technology are the bottling of wine, beer, water and soft drinks and even the wider industry and pharmaceutical industry.