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 - 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
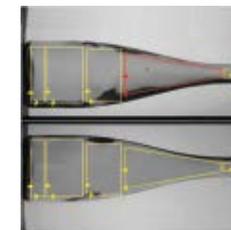   [High Frequency, Infrared, Xray]

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.
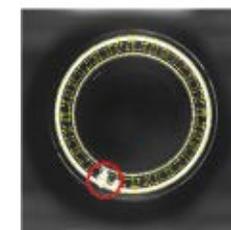
TYPE OF CONTAINER

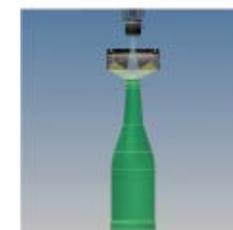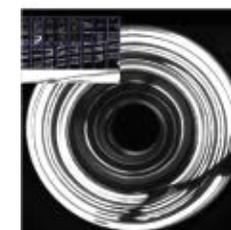☑ Transparent and rigid bottles or containers

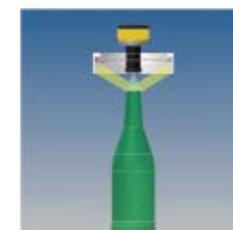Sidewalls

Principle – Sidewalls

Neck finish

Principle – Neck finish

Thread

Principle – Thread

Bottom

Principle – Bottom