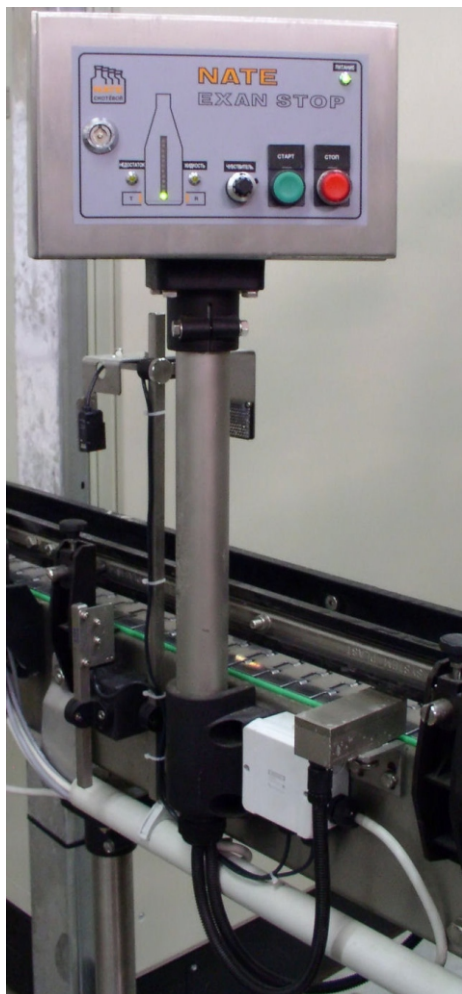


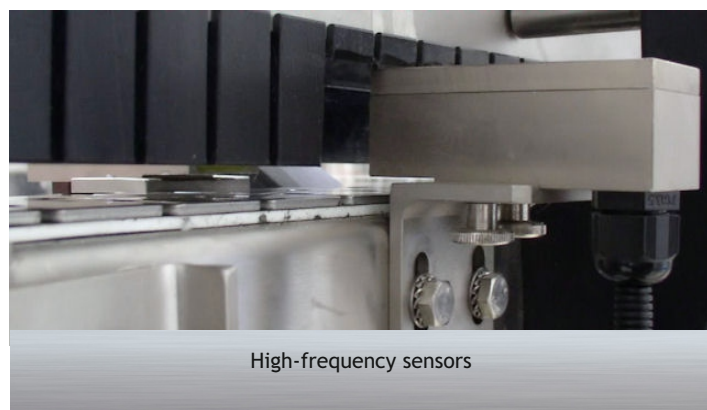
INSPECTION OF RESIDUAL LIQUIDS AND LYE - EXAN STOP



Exan Stop - Liepāja, Latvia

USE

- last inspection of residual liquids before the filling machine, operation will be interrupted in the case a defective bottle is detected
- output range up to 50.000 bottles/hour
- for bottles washed by the bottle washer (glass bottles)
- to increase line safety (assembly not until after standard equipment inspection - just before the filling machine)



High-frequency sensors

DESCRIPTION OF SOLUTIONS

- the equipment is inspected using a single-purpose control board with a microprocessor
- works on a high-frequency principle, higher sensitivity for bottles with lye than for bottles with water, also detects bottles with a used lye film
- bottles are removed manually, the conveyor belt moving through the equipment is stopped and even the filling machine is stopped in the majority of cases (depending on the position on the line)
 - hereby, the operator's attention is brought to the serious problem of the penetration of a bottle with lye
- sensitivity setup on the front panel, including indication of signal levels using 12 LED diode



Case of EXAN STOP

EXAMPLE OF SOLUTION

- Birra Korča, Albania
 - 0,33 l, 0.5 l bottles
 - output 7.000 bottles/hour
- Pivovar Liepāja, Latvia
 - 0.5l bottles
 - output 20 000 bottles/hour
- OOO EREBUNI ALCO, Yerevan, Armenia
 - output 10.000 bottles/hour



INSPECTION OF RESIDUAL LIQUIDS AND LYE - EXAN STOP 1.0



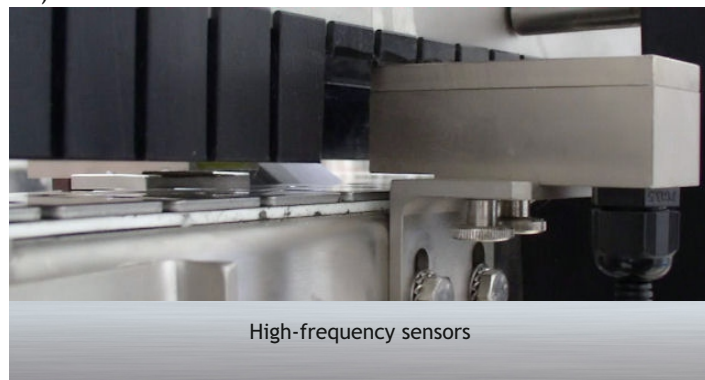
Exan Stop 1.0 - PEPSICO,
Toma Teplice nad Metují, Czech republic



Case of EXAN STOP 1.0

USE

- last inspection of residual liquids before the filling machine
- optional inspection of bottle height (taller/shorter/toppled over)
- indication of the position of defective bottles with liquid,
- output range up to 50.000 bottles/hour
- for bottles washed by the bottle washer (glass bottles)
- to increase line safety (assembly not until after standard equipment inspection)



High-frequency sensors

DESCRIPTION OF FUNCTION

- the equipment is inspected using a control board with a microprocessor or a SIEMENS S7-200 control system
- works on a high-frequency principle, higher sensitivity for bottles with lye than for bottles with water,
 - due to the indication of the position of a defective bottle (or bottles), it is possible to detect and even reliably remove bottles with a lye film
 - bottles are removed manually, the conveyor belt moving through the equipment is stopped and even the filling machine is stopped in the majority of cases (depending on the position on the line)
- thereby, the operator's attention is brought to the serious problem of the penetration of a bottle with lye
- sensitivity setup on the front panel, including indication of signal levels using 12 LED diode
- components used:
 - Omron sensor or LEUZE (optic)

EQUIPMENT DESIGN OPTIONS

- in exceptional cases, bottle elimination is also possible (e.g. if it is the only inspection equipment on the line)
- other functions according to the customer's needs (consultation required)

EXAMPLE OF SOLUTION

- PEPSICO, plant Toma Teplice nad Metují, Czech republic
 - 0.3l bottles
 - output 18. 000 bottles/hours
- OOO Závod mineralnoj vody (Mineral plant), Dilijan
 - output 15.000 bottles/hours