

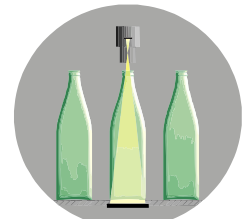
COMPLETE INSPECTION OF BOTTLES BEFORE FILLING - EXAN 08 CCD

USE

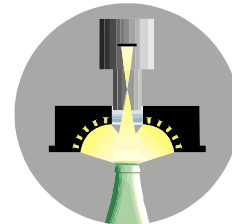
- for glass bottles that are washed by the bottle washer
- to check the cleanliness of the bottoms, walls, shapes and colours of bottles
- entirety of bottleneck mouth
- to detect residual liquid, remains of lye film
- to detect taller or shorter bottles - including toppled over bottles
- output range up to 55.000 bottles/hour

DESCRIPTION OF FUNCTION

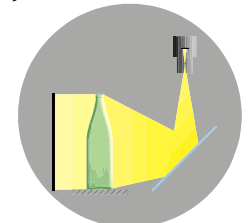
- to check the bottoms, necks and walls of bottles on the basis of CCD cameras and specialised evaluation software
- defective bottles are automatically eliminated onto a multi-row accumulation conveyor
- high-frequency check of liquids, higher sensitivity for bottles containing lye than for bottles with water, reliably also detects lye film
- additional infra-red liquid inspections, highly reliable for larger volumes of liquid
- easy and simple to adjust without spare parts, using fast mechanical and electronic alignment
- to restrict the right to operate the equipment, more elimination, sorting of unusable bottles into the waste (with a different height or damaged neck mouth)



cleanliness of base



mouth integrity



cleanliness of wall



EXAN 08 CCD - Brewery Litovel a.s. Litovel, Czech republic

DESIGN OPTIONS

- additional bottle colour inspection
- equipped with selected functions only
- design and layout design according to the customer's needs
- other functions according to the customer's needs (consultation required)

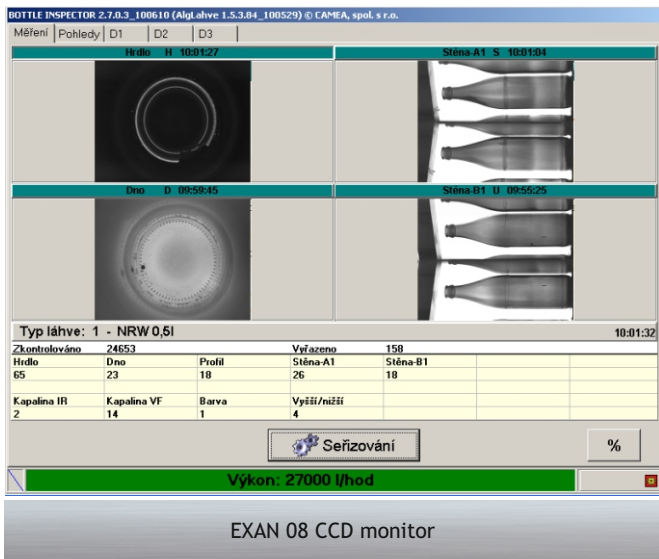
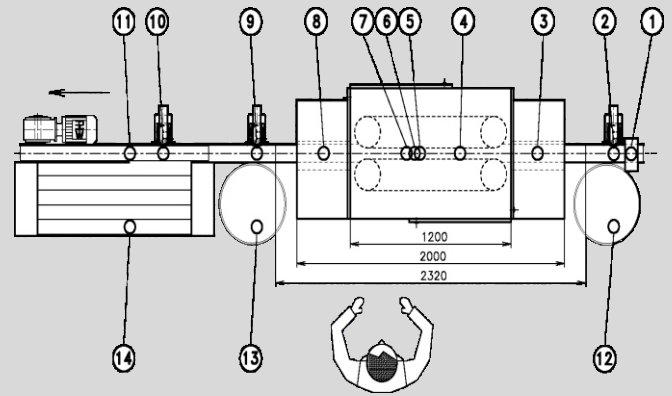
OTHER EQUIPMENT PROPERTIES

- colour TFT flat screen with the option to monitor the equipment visually
- report defects, alignment and data archiving with touch screen control
- remote administration via the internet
- automatic control of the precision to eliminate defective bottles
- automatic control of the output and adjacent conveyors
- option to interconnect with the customer's information system



MACHINE LAYOUT WITH TYPICAL PLACEMENT OF CONTROL FUNCTIONS

1. detection of taller, shorter and toppled over bottles,
2. eliminator of taller and shorter bottles,
3. wall and bottle shape inspection - input unit,
4. bottle neck inspection,
5. bottle bottom inspection,
6. infra inspection of residual liquid,
7. V.F. inspection of residual liquid,
8. bottle wall inspection - output unit,
9. eliminator for eliminating bottles with damaged necks,
10. eliminator - on the table (bottles with dirty bottoms and walls, with residual liquid, wrong shaped bottle),
11. inspection of correct bottle elimination,
12. container for taller, shorter bottles,
13. container for bottles with damaged necks,
14. table (accumulation conveyor) for accumulating other defective bottles.



EXAMPLE OF SOLUTIONS

- Brewery Litovel a.s., Czech Republic
- KRAKONOŠ spol. s.r.o., Trutnov, Czech Republic
- BANSKOBYSTRICKÝ PIVOVAR, a.s., Banská Bystrica, Slovakia
- OAO «Завод пивоваренный Моршанский», Russia
- APO Fruchtsäfte GmbH, Millstatt, Germany
- CJSC "Beer of Yerevan", Yerevan, Armenia
- Litovel brewery, 0.33 and 0.5 l bottles, output 36.000 bottles/hour
- PepsiCo, Prague plant, 0.25 l bottles, output 24.000 bottles/hour
- PepsiCo, Toma Teplice nad Metují plant, 0.3l bottles, output 18.000 bottles/hour
- Piwniczanka mineral water bottling factory - Poland, 0.33 l bottles, output 18.000 bottles/hour
- Jihlava brewery - K-Brewery, 0.5 l bottles, output 23.500 bottles/hour
- Strakonice brewery, 0.33 and 0.5 l bottles, output 18.000 bottles/hour
- Náchod brewery, 0.33 and 0.5 l bottles, output 24 000 bottles/hour
- Čeboksary brewery - Russia, 0.33 and 0.5 l bottles, output 25.000 bottles/hour
- Kilikia Jeveran brewery - Armenia, 0.33 and 0.5 l bottles, output 36.000 bottles/hour
- Steiger Vyhne brewery - Slovakia, 0.33 and 0.5 l bottles, output 24.000 bottles/hour
- AGROFIRMA TĚRVETE - Latvia, 0.5 l bottles, output 7.000 bottles/hour

