BW Container Systems

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FILL LEVEL INSPECTION FOR CRAFT BEER - CL600

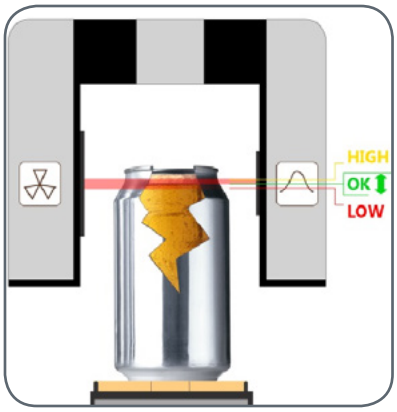
CL600 X-Ray Fill Level Inspection for Metal, Glass and Plastic Containers

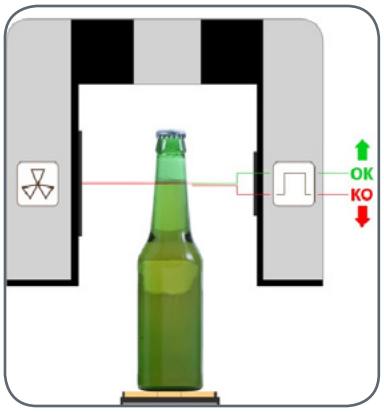
The CL600 X-ray sensor will inspect metal, glass and plastic containers for fill level defects. The sensor is designed to mount easily over an existing production conveyor. The ergonomic design provides easy access the control panel and supports fast tool-less change overs. The X-ray sensor is ideal for inspection on carbonated beverages with foam in the headspace.

The CL600 X-Ray System can support filler valve monitoring for a complete fill level management solution.

X-Ray Fill Level Technology - Theory of Operation

The CL600 X-ray fill level sensor is used to measure the fill level in metal, glass and plastic containers. The system uses a low energy x-ray beam to measure the density of the product in the fill level region of the container. The X-ray beam passes through the container and is attenuated by the product blocking the beam. The amount of energy attenuated by the product is proportional to the amount of product in the fill level region. The X-ray beam is received by a linear diode array that measures the energy of the beam across the full width of the container. This analog data is used to calculate the fill level.

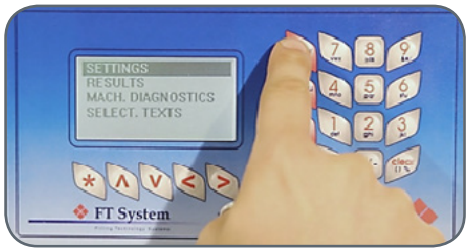


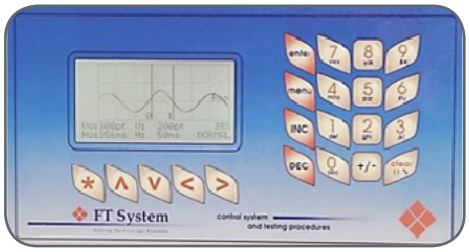


FILL LEVEL INSPECTION FOR CRAFT BEER

SYSTEM FEATURES

- Over fill and under fill inspection on single sensor on cans or PET
- Underfill inspection on glass bottles
- Fill Level precision 1mm (+/- 0.5mm)
- Simple operator interface with password controls
- Production counters for total containers, total accept, total reject, percentage pass/reject, under fill reject value, over fill reject value.
- Consecutive and sequential reject alarms
- Self diagnostics with alarm output
- Data archives for 60 product setups
- Multilingual user interface
- Built-in oscilloscope function
- 2 communications ports (Standard MODBUS protocol)
- Able to support multiple production lines from single controller

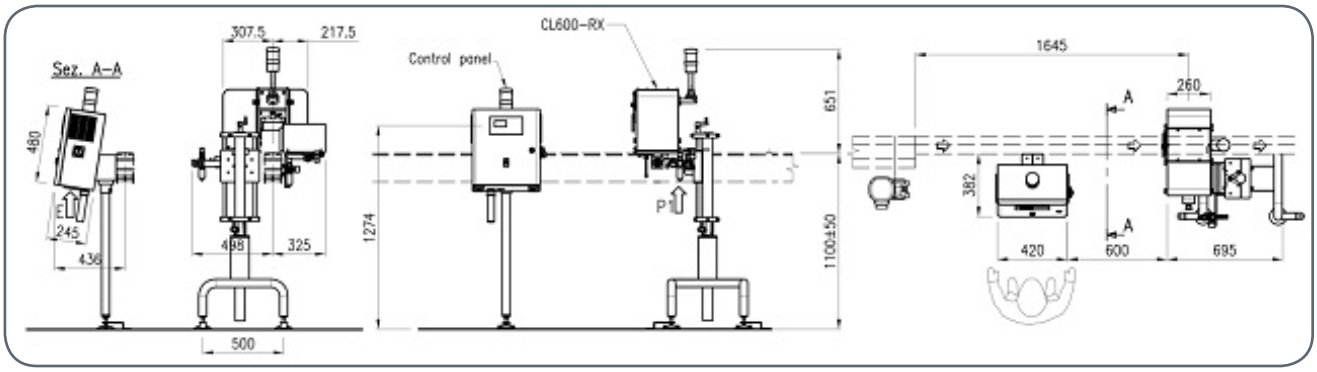




PROCESS CONTROL FEATURES

- Calculation of mean error (rolling average showing the amount containers are over filled or under filled)
- Ability to add complete filler valve monitoring to isolate fill level defects by individual filler valve
- Ability to add filler valve or capper head sampling to periodically sample containers by filler valve or capper head

Tot.general	0
Tot.accepted	0
Tot.rejected	0
Perc.reject	0.0
Rejects min.	0
Rejects max.	0
Cap Rejects	0
Label Rejects	0
Foam Rejects	0
Ext.c.Rejects	0
Mean Error	0
Stand.deviat.	0.0



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FILL LEVEL INSPECTION FOR CRAFT BEER

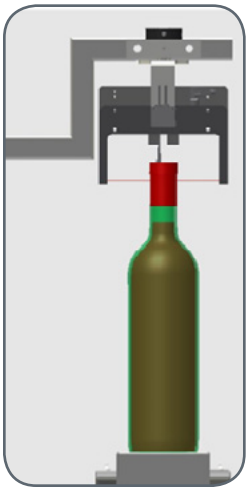
OPTIONAL INSPECTIONS AND CONTROLS FOR THE CL600-RX

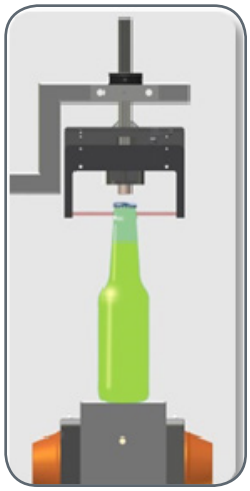
Missing can end inspection

- Detect absence or presence of can end
- Automatically rejects missing can end defects
- Consecutive reject alarm

Missing crown or missing cork inspection

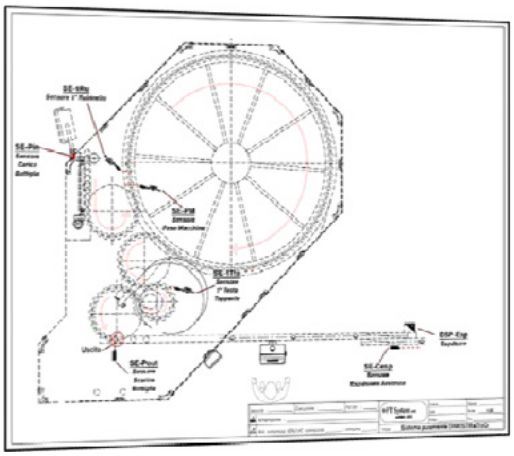
- Detect absence or presence of metal crown or cork
- Automatically rejects missing crown or cork defects
- Consecutive reject alarm





Filler valve and crowner monitoring systems

- Identifies source of ill level or crowner defects
- Full statistics on each valve or crowner head



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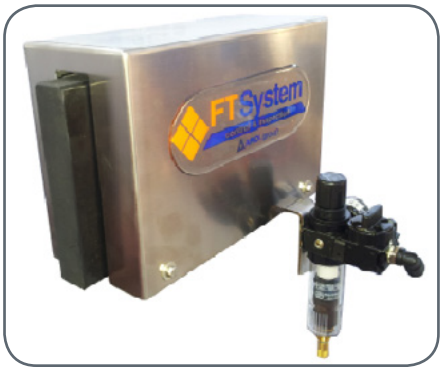
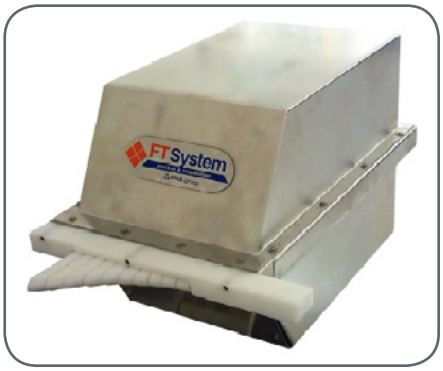
REJECT OPTIONS FOR CANS AND BOTTLES



Z100 Pneumatic Push Rejector

- Up to 600 cpm
- Small footprint



Z001-8 Finger Rejector/Diverter

- Up to 600 cpm
- Divert cans/bottles standing up

ADDITIONAL INSPECTIONS COMMON IN CRAFT BREWERIES

CP600 Full case or keg inspection system

- Up to 70 cases/minute
- Small footprint
- Available with case metering conveyor
- Automatic rejection

Contact our experienced sales teams today for a comprehensive review of your application(s) and to see how the Fill Level Inspection can benefit your company.

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