

# PBI-100-E

## Inspection System for Aseptic Filling Lines

The TapTone PBI-100-E Inspection System finds and rejects leaking and damaged plastic containers at line speeds of up to 60 meters (200 feet) per minute. This innovative system was developed to accommodate the sanitary requirements of an aseptic filling production line. Aseptic filling lines typically require a system that is easy to clean and maintain. The PBI-100-E was designed specifically to limit bacterial growth and contamination and can be fully washed down without harm to its internal electronics and mechanisms. It has angled surfaces for cleaning runoff and very few crevices for anything to be trapped.

This PBI-100-E design simplifies installation and minimizes required modifications to the production line. A simple, menu-driven keypad provides the user interface. An on-screen sensor display provides feedback for proper system setup. Self diagnostics are utilized for continuous monitoring of system performance.

### Benefits include:

- Ease of installation (non-intrusive)
- Rapid product changeover
- Variable speeds
- Find leakers, closure defects, and defective or missing foil seals
- Reject defects before customers find them
- Identify defects early in your process
- Splash shields protect mechanics, prevent contamination



▲ PBI-100-E.



### TapTone PC Software

The TapTone PBI-100-E is also available with our latest TapTonePC software package. This user friendly tool provides real-time production data analysis and graphical reporting to assist in monitoring product quality. Installation start-up and routine quality audits are made simple and accurate with TapTone PC.

► Typical containers that can be tested using the PBI system.



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# PBI-100-E

## Inspection System for Aseptic Filling Lines

**Special Features:**

- Contoured design for ease of cleaning, no areas for product build-up
- Open conveyor for cleaning and access to mechanics
- Large operator access panels for maintenance
- All stainless steel design to prevent oxidation and bacterial growth
- All controls combined in one simple controller
- All metric construction
- Optional internal and external clean-in-place systems

**Other Features:**

- Inspects up to 700 containers per minute (dependent on container size)
- Finds holes as small as .05 mm (.002 inch) in diameter\*\*
- Parameter memory for 50 product types
- Adjustable for container width and height
- Variable speed conveyor from 0-60 meters (200 feet) per minute
- Digital signal processing (DSP) technology
- RS-232 serial interface port
- Multi-language display
- 4 optional outputs
- Consecutive reject alarm
- On-screen self-diagnostics
- Menu-driven keypad
- Flash memory for easy upgrades
- IP65 rated enclosure

**Technical Specifications****GENERAL SPECIFICATIONS\*****Container Configurations**  
**Container Height**

Round, oval, square, and rectangular  
102 mm (5 in.) minimum; 330 mm (13 in.)  
maximum

**Container Length**

38 mm (1.5 in.) minimum; 229 mm (9 in.)  
maximum

**Container Width**

38 mm (1.5 in.) minimum; 229 mm (9 in.)  
maximum

**Leak Detection Capability**

Find leaks >.05 mm (.002) inch \*\*

**INSPECTION SYSTEM****Utilities, Electrical**

120 VAC  $\pm$ 10%, 50/60 Hz, single phase,  
100 watts

**Operative Speed**  
**Temperature**

Up to 60 meters (200 feet) per minute  
Operating: 0° to 50° C (32° to 122° F)  
Storage: -20° to 70° C (-4° to 158° F)  
5-95% relative humidity non-condensing  
Sea level to 3,035 meters (10,000 feet)  
4 optional programmable outputs  
Flash memory for easy upgrades  
Self diagnostics for troubleshooting  
Menus in seven languages  
CE

**Humidity****Altitude****Outputs****Operating System****Approvals****SQUEEZER CONVEYOR SYSTEM****Motor Controller**

Variable frequency drive, IP65 motor  
controller

**Drive Motors**

IP65 rated motor  
Power 400 VAC  $\pm$ 10%, 50/60 Hz, 3 phase,  
1.1 Kw

**Belt Speed**

0 to 60 meters (200 feet) per minute,  
variable adjustment

**Bearings****Operating Temperature****Humidity**

Sealed, corrosion resistant

0° to 50° C (32° to 122° F)

5% to 95% relative humidity, non-  
condensing

\* Certain features are dependant on container shape and size.

\*\* Line speed and container size dependent.

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