

# Whole line inspection of beer bottles

## Specifications :

### Detail Introduction :

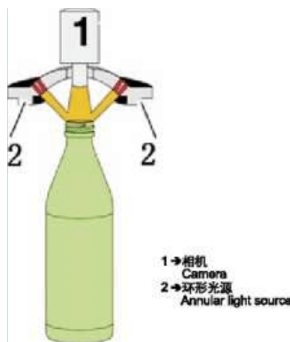
1. Mouth inspection machine of Empty bottles
2. Cap and liquid level inspection machine of beer bottles
3. Leak detection

## 1. Mouth inspection machine of Empty bottles

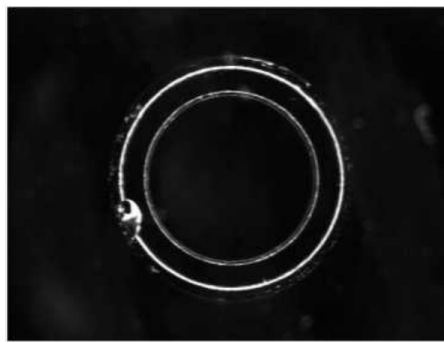
**Inspection content:** broken mouth and dirty mouth.

### Advantage?

- Double evaluation ring technology to detect bottle mouth reliably and stably.
- The bottle mouth image is divided into several grades, and the evaluation method is accurate and precise.
- Using an independently developed image processing system, the maximum speed is up to 60000 BPH.



Optical path design



The bottle mouth image processing process

## 2. Cap and liquid level inspection machine of beer bottles

**Inspection content:** no cover, crooked cover, low level.

### Advantage?

- Using self-developed hardware detection system, the fastest processing speed, is up to 50000 BPH.
- The automatic elimination device is adopted to eliminate the bottle which is difficult to be poured.
- Using a high life LED light source, energy saving, environmental protection.

## 3. Leak detection

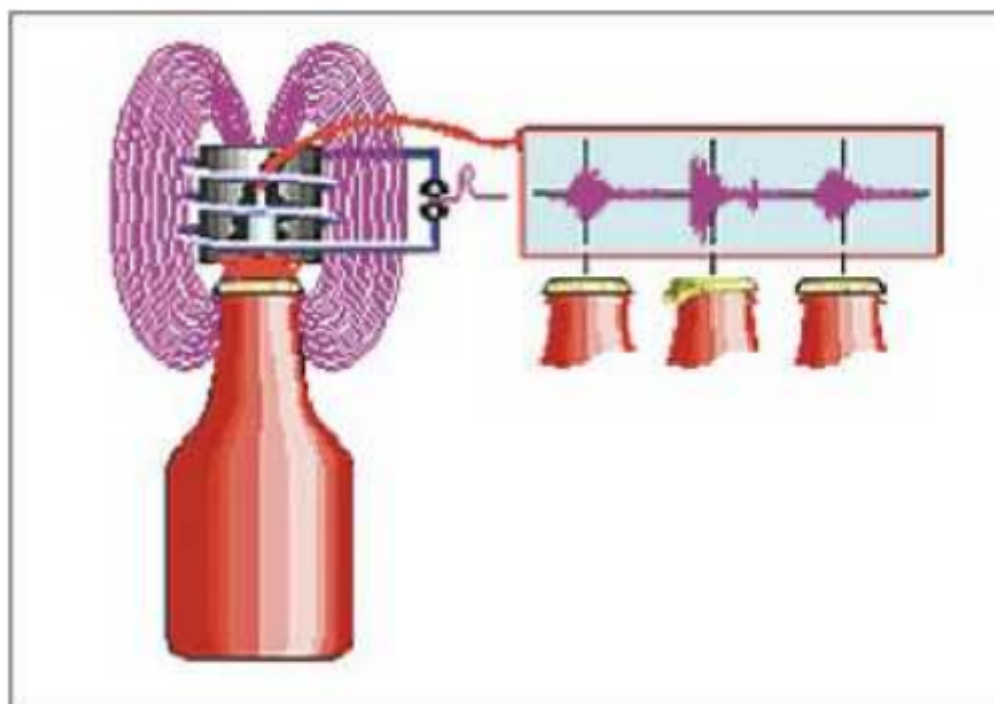
**Inspection content:** whether the beer bottle gas leak, no cover, high pressure.

### Advantage?

- Using acoustic technology, non-contact and on-line "knock" detection, the maximum speed is up to 72000 BPH.
- The hardware circuit and the embedded operating system is adopted to ensure stable operation for a long time.



Inspection system interface



System schematic diagram