

Whole line inspection of PET bottles

Specifications :

Detail Introduction :

- 1. Bottle embryo inspection machine
- 2. Cap and liquid level inspection machine
- 3. Code inspection machine
- 4. Label the inspection machine
- 5. Cap pattern inspection machine

1. Bottle embryo inspection machine

Inspection content:

Inside acquisition missing, outside missing, a point missing, whole missing, the bottle mouth deformation (bottle mouth is not round)

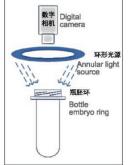
Advantage?

• Using a high-speed camera to acquire a bottle's acquisition mouth image, the processing speed is fast, up to 50000 BPH.

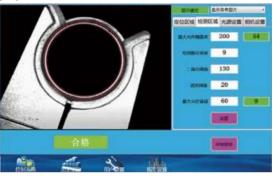
• Using a touch screen, intuitive display.

• Specially made 15-inch bowl-shaped light source is adopted, the mouth of the bottle is uniformly light, and the utility model has the advantages of no dead angle, long service life, and energy saving.

• The inspection machine is stable, and the error rate is low.



Optical path design



Software system interface

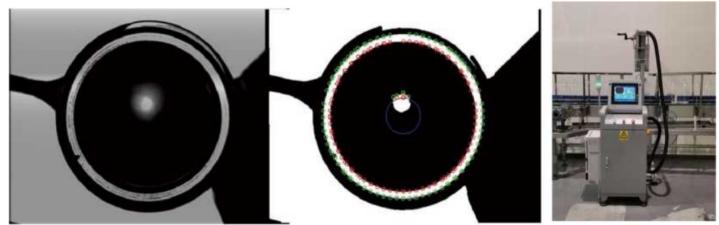


Image processing process 2. Cap and liquid level inspection machine



Inspection content: high cover, crooked cover, no cover, safety fault, low level. **Advantage?**

• Using a graphical man-machine interface is intuitive and concrete.

• The processing speed is fast, the inspection accuracy is high, and the fastest speed can reach 50000 BPH.

- Simple operation, easy to production line staff.
- Multi-angle inspection, no dead angle, less manual intervention, low false tick rate.
- Using high brightness LED light source, adjustable brightness, long life, energy saving, maintenance free.



3. Code inspection machine

Inspection content: no code, code positions code partly missing.

Advantage?

- The advanced algorithm is stable and has high detection accuracy •Detect different code positions.
- The maximum speed is up to 72000 BPH.

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		日示模式 显示		所有出片	
Ritoree + 12	定位区域	检测区域	光源设置	相机设置	
	10,7903.16	左上角X	30		
	检测压线	左上角Y	120		
	10,000	E HE HE HE	180		
	检测	K MARINE	85	82	
	自适应	QLANK AL	11		
	自适应	和直接完	11		
	自适应二		-30		
合格		(Retai			

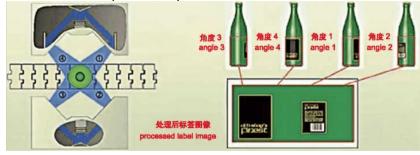
Optical path design

Software interface

4. Label the inspection machine

Inspection content: high label, low label, no label, damaged label, connective label, label logo **Advantage?**

- 360-degree inspection.
- Multi-view stitching and color recognition technology are more reliable.
- The maximum speed is up to 36000 BPH.



Optical path design

4 images are collected from two cameras and spliced into a complete label image for subsequent processing

5. Cap pattern inspection machine

Inspection content: logo inspection, color inspection. **Advantage:**

- Color recognition technology is used to inspect different caps accurately.
- Using self-developed algorithms, reliable inspection of the cap of the external logo, cap information, such as "thank you taste," "another bottle," and so on.
- The maximum speed is up to 60000BPH.



