

# 03

## AUTOMATIC LABELING MACHINE



Back Side Labeling Machine

Front Side Labeling Machine

### Main Application

The two labeling machines with TTO printer are used to label both sides of the BFS ampoule cards and with high-resolution camera to identify the printing information and check the presence of label. Any product without label or with unreadable/missing printing will be rejected. It is applicable to the labeling of products such as hyaluronic acid, eye drops and injectable PP ampoules.

### Features

The special structure is adopted to eliminate the influence of the deformation of the product itself and the deformation of the conveying process on the labeling accuracy, and the labeling accuracy can reach  $\pm 1\text{mm}$ .  
 TTO printer can be installed onto labeling unit to print production date, expiry date and batch code.  
 Optional visual inspection system can automatically detect the printing and labeling quality, and reject unqualified products.  
 Two sets of equipment can be connected in series to achieve labeling on both sides, meeting customer's personalized customization requirements.

### Technical Parameter

Capacity	60~120 strips/min	Labeling accuracy	$\pm 1.0\text{mm}$ (excluding the error of the label and the product itself, related to label size)
Power supply	220V 50/60HZ		
Power consumption	2.5kW/3.2kW		
Compressed air	0.6MPa		



# BFS inspection and leak test and labeling line

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# 01 AUTOMATIC INSPECTION MACHINE



## Main Application

BFS automatic inspection machine is mainly used for the plastic ampoule cards quality inspection of cosmetic defects, liquid level, particles or impurity. It is not only suitable for the inspection of plastic ampoule cards of eye drops and injections in the pharmaceutical industry, but also suitable for the detection of similar packaging products such as hyaluronic acid in the cosmetics industry. It is a fully new type of light inspection machine that can improve efficiency, increase production, stabilize quality and bring significant economic benefits to customers.

## Features

Realize automatic inspection of cosmetic defects including cracks, dirty dots, burr; and the liquid level and impurity inside liquid including particle, hair, fiber etc.  
 Adopt automatic identification system and smart cameras with high resolution and good stability which can inspect impurity over 0.5mm with rejection rate exceed 99.7% (with precondition of clean bottle, no precipitation); Visual inspection interface, the inspection image is displayed on the screen in real time.

## Technical Parameter

Capacity	60~120 strips/min	Power consumption	5.5kW
Power supply	220V 50/60HZ	Compressed air	0.6MPa

# 02 ELECTRIC PINHOLE INSPECTOR



## Main Application

The electric pinhole inspector is a machine that applies HVLD technology to non-destructive inspection on plastic ampoule products filled with liquid medicine to ensure product seal integrity by identifying small pinholes, micro cracks, and seal imperfections that cannot visually be seen, and the products will be automatically rejected once there is any leakage.  
 It provides a stable and reliable inspection method and can be widely used in pharmaceutical and cosmetic industries and so on.

## Features

Realize non-destructive leaking test by HVLD technology.  
 4 high voltage inspection electrodes focusing on the specific location of the container respectively ensures the high leak detection accuracy.  
 It is designed with quick changeover parts and operators can perform a size changeover in a matter of minutes.

## Technical Parameter

Inspection station	1-4 station(s)	Power consumption	4kW
Strip size	1~20ml	Product conductivity	1.3μs/cm (as low as WFI)
Capacity	60~120 strips/min	Detectability	up to 2μm