PouchPac™ Innovations LLC

qipack
QUALITY INSPECTION PACKAGING

# SEAL/LEAK DETECTION INSPECTION SYSTEMS

## PROMOTES DEFECT FREE PACKAGES

**Promotes Product Quality**
Prevents leakages, no wrinkles, no product in seal that can cause preliminary product deterioration

**Prevents consumer complaints and customer claims**
Prevents delivering badly sealed pouches to the consumer, therefore reducing complaints and costs

**Reduces contamination**
Product ejection at sealing stage prevents leaking pouches from contaminating production lines and retail shelves

**Saves your brand image**
No spoiled pouches in retail will improve the brand quality perception

## PROMOTES PACKAGING PROCESS OPTIMIZATION

**High speed, high quality, high accuracy**
Determination of optimal machine settings to obtain defect free pouches at high speed

**Identification of error causes**
Examination of rejected pouches to obtain feedback for continuous improvement of total packaging process

**Provides an early warning alert so that preventive maintenance will prevent further losses**
Software monitoring of the packaging process provides early warning parameters to prevent production loss due to stand-still


## KEY BENEFITS

1. Continuous and real time inspection of the seal quality

2. Makes the following defects clearly visible:
   - Product in seal
   - Wrinkles and folds of laminate in seal
   - Laminate defects (for example, delamination, mistakes in laminate composition, etc.)
   - Dirt and PE appearing on seal tooling

3. Continuous and real time monitoring of the packaging machine. Any kind of changes in performance of the packaging machine and product in-feed will become visible

4. Can be used for all kinds of horizontal, vertical, flow-wrap machines and pouch makers, as well as thermoform machines

PPi Technologies Group
Contract Packing & StandUp Pouch Machinery

***GLOBAL TECHNOLOGIES FOR ALL YOUR PACKAGING NEEDS***

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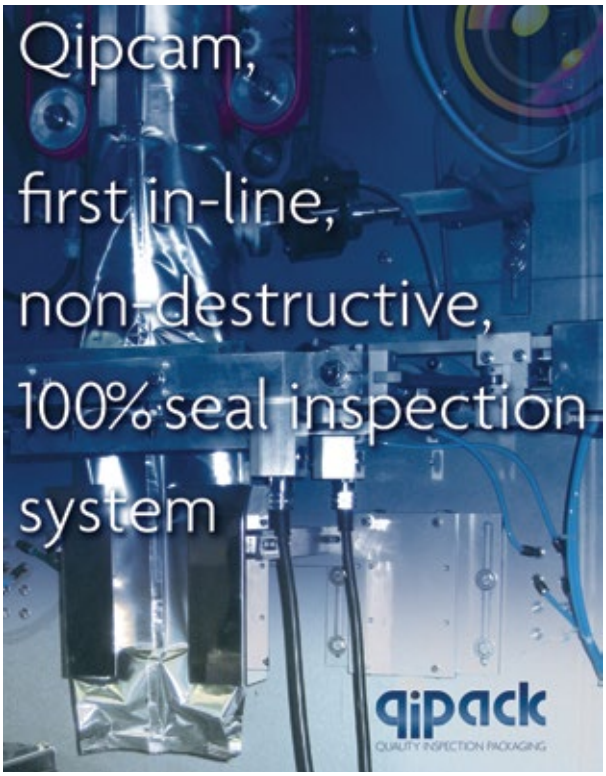


The new seal quality/leak detection inspection technology is based on high definition camera images. Directly after the seal has been produced, an image is taken and analyzed by special software. This results in remarkable clear information regarding the abnormalities in seal quality. This is carried out during production and defects are immediately detected in-line. In case of finding errors, the pouch will be pushed out for further investigation by a rejecter unit.

Every individual pouch is therefore investigated on its integrity, independent of the production rate.

In a fraction of a second, a quality test is performed. When the seal quality of the pouch is acceptable, the newly sealed pouch is passed through. If not, it will be removed from the production line by a rejecter unit, integrated into the packaging machine.

The system can be (re)started or stopped at any time. The operator can adjust the line whenever needed, no special actions with the Qipcam are needed.

When starting up the line, the Qipcam will automatically record the first 30 to 50 seals and generate from these recordings a reference seal which will be compared to all next produced seals. This process will be carried out automatically after starting up again or when requested.