*Seal*Scope™

IN-LINE, 100% SEAL INSPECTION FOR THE BEST PACKAGING RESULTS

ENGILICO™

What is Seal*Scope*™ ?

Seal*Scope*™ is a patented, in-line system for 100% seal inspection and monitoring of your sealing process. SealScope's main functionalities are:
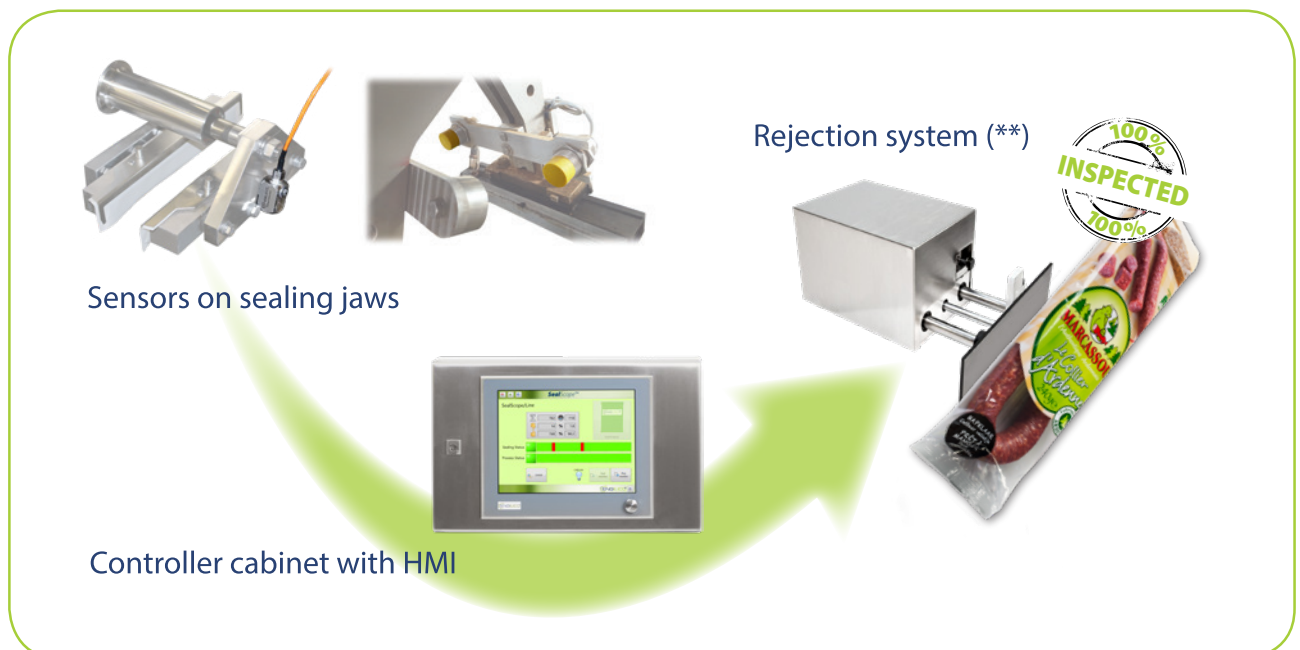
- **Detection and rejection** of compromised packages due to wrinkles and product in seal
- **Optimization** of your packaging process for higher outgoing packaging quality and higher effective line speed
- **Monitoring** of your sealing process KPI's and issuing alarms when they exceed user defined thresholds
- **Logging and visualization** of production data

Seal*Scope*™ consists of one or multiple **sensors**, a **controller** with HMI and the SealScope™ **software**. **Seal***Scope*™ is compatible with most packaging processes & packaging types, including pillow bags, flow packs and pouches.

Using the detection and monitoring tools of **Seal***Scope*™ you can reduce the number of incidental open packages by a factor of 10 or more (*). Additionally, effective packaging speed can be increased while monitoring the sealing quality.

Seal*Scope*™ **layout**

Sensors on sealing jaws

Controller cabinet with HMI

Rejection system (**)

(*) results are process dependent, please contact us for advice.
(**) rejection system is not included as this is strongly line and application dependent

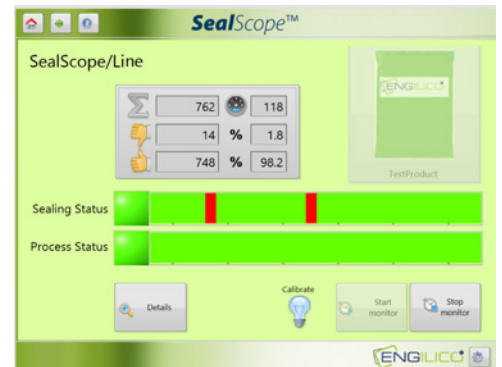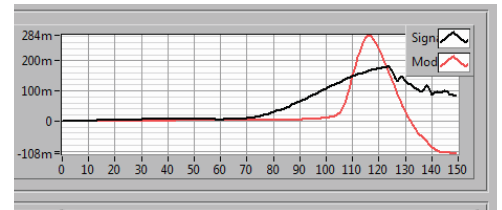# Seal*Scope*™ working principle ?

Seal*Scope*™ measures the sensor signals when the seal bars are closing and compares these with a reference model.

These reference models are automatically built during the first seals at startup **(autocalibration)**.
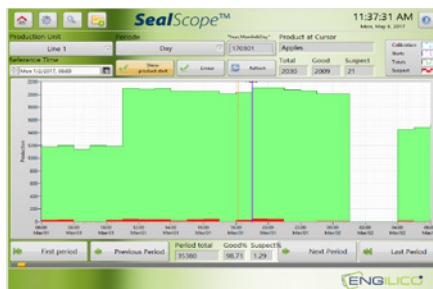
Seal*Scope*™ checks every package, **independent of line speed**.

Compromised packages due to **wrinkles and product in seal** can very easily be detected and rejected.

Seal*Scope*™ also monitors the KPI's of the sealing process and issues alarms in case thresholds are exceeded (user definable).

Additional functionality of Seal*Scope*™

Visualization of production data
Easy visualization of hourly production data allows for comparing production performance over various machines, shifts, products, packaging lines, etc.

Logging of production data
Seal*Scope*™ logs production data like number of packages made, number of good/bad packages, machine speed, etc. per product. This data is available in txt format and can be used for off-line statistical analysis.

OPC / QMTT
All measurement data can be shared to the company network via OPC/QMTT connectors.

Audit trail
Next to measurement data per product, Seal*Scope*™ also logs all operator interactions for 100% traceability.

*What do our customers use **Seal**Scope™ for ?*

INCREASING PACKAGING QUALITY

Detection and rejection of compromised packages due to wrinkles and product in seal leads to higher outgoing quality. This means longer shelf life, higher customer satisfaction and ultimately a stronger brand image.

INCREASING EFFECTIVE PACKAGING SPEED

A lot of packaging machines run either too slow (to get acceptable quality) or too fast (with adverse effect on quality). With **Seal**Scope™ you can determine the optimal machine speed where production output and package quality are maximized. Additionally, rejection of open packages will reduce downstream contamination and standstills.

REDUCING MANUAL REWORK

SealScope™ detects and rejects defective packages at the source. Hence, quarantining and manual rework can strongly be reduced.

END-OF-LINE AUTOMATION

On a completely automated line without any human interaction with the product, **Seal**Scope™ offers the perfect solution by means of automated 100% inspection and process monitoring.

UNIFORMIZING MACHINE PERFORMANCE

By comparing and using the **Seal**Scope™ data from various machines, you can achieve uniform performance over different machines and operators.

TARGETED MACHINE MAINTENANCE

By inspecting the rejected packages, the root cause of rejection can easily be determined which makes it easier for maintenance to keep the machines in optimal shape.