



# **Seal**Scope<sup>®</sup> IN-LINE 100% SEAL INSPECTION FOR THE BEST PACKAGING RESULTS





What is SealScope® ?

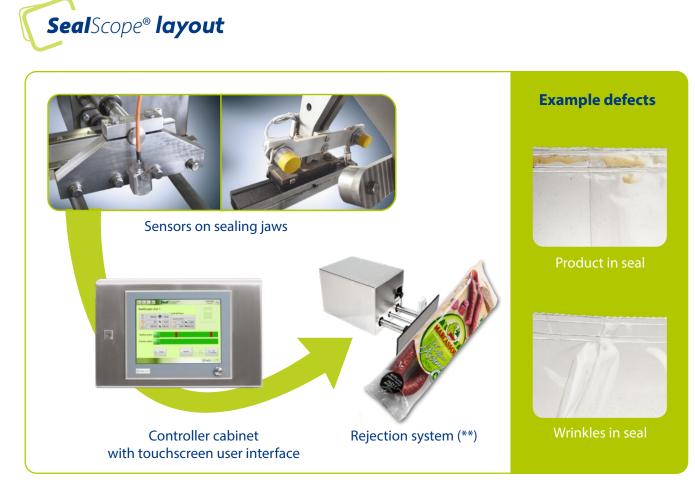
*Seal*Scope<sup>®</sup> is a patented, in-line solution for 100% seal inspection and monitoring of your sealing process. SealScope's main functionalities are:

- Detection and rejection of compromised packages due to wrinkles or product in seal
- **Optimization** of your packaging process for higher outgoing packaging quality and higher packaging equipment performance and availability
- Monitoring of your sealing process and issuing alarms when exceeding user defined thresholds
- Logging and visualization of production data

*SealScope*<sup>®</sup> consists of one or multiple **sensors**, a **controller cabinet with touchscreen** and the intuitive *SealScope*<sup>®</sup> **software**.

*SealScope*<sup>®</sup> is compatible with almost all packaging machines producing flexible packaging types including **pillow bags, flow packs and pouches** and can verify up to 500 packages per minute.

Using the detection and monitoring tools of **Seal**Scope<sup>®</sup>, the outgoing number of packages with defective seals can be reduced by a factor of 10 or more (\*). Additionally, the overall packaging machine effectiveness can be increased while monitoring the sealing quality.



(\*) results are process and machine dependent

(\*\*) rejection system is not included as this is strongly line and application dependent



# SealScope<sup>®</sup> working principle

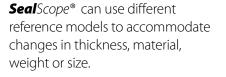
*SealScope*<sup>®</sup> checks every seal by measuring the sensor signal(s) during the closing of the seal bars and comparing them with a reference model.

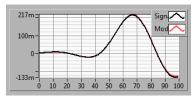
In case the difference is higher than the user defined limit, *Seal*Scope<sup>®</sup> will issue a rejection signal.

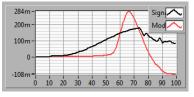
The reference models are automatically updated at the start of every run using correct seal profiles **(base lining)**.



SealScope® operator view







Good seal

Bad seal

## Industry 4.0 functionality

#### Visualization of production data

*SealScope*<sup>®</sup> logs hourly production data to visually compare performance over various operators, products and packaging lines.



#### Logging of production data

*Seal*Scope<sup>®</sup> logs date, time, total packages, number of good/bad packages per product type. This data is available in .txt-format for off-line statistical analysis.

#### OPC / MQTT

All measurement data can be shared to the company network via OPC/MQTT connectors. This allows big data analysis & processing to monitor the line performance.



#### Audit trail

Operator interactions with *Seal*Scope<sup>®</sup> are logged to obtain 100% traceability.



### Our customers and why they use SealScope®

SealScope<sup>®</sup> is running on 220+ packaging lines at international customers in the food, pet care and other industries. Customers such as Unilever, Kikkoman, FrieslandCampina, Materne, Ecolab use SealScope® to realize following benefits:



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