

Seal Tester

(with optional
Vision System)

In-line leak detection and label integrity





Seal Tester

New confidence in total pack integrity

The Ishida seal tester is a fast and accurate in-line leak detector designed specifically to test the seal integrity of trays and bags. As well as detecting significant leaks, it can pick up any trends that might give early warning of deterioration in the sealing process.

The Ishida seal tester can be used with any product in which there is a gas fill that resists the application of pressure. Pressure is rapidly but gently applied to each pack, while monitoring its height. Any significant reduction in the height indicates a seal integrity problem and is followed by the rejection of the pack.

Applications range from wet wipes to fresh produce, with detection of seal defects and other leaks at high speeds - subject to product dimensions and characteristics.

Highly accurate, even at high speeds, the seal tester is also extremely versatile. Product height, applied pressure and tolerances are programmable, permitting the testing of tough and delicate products alike. A mode is available where the product is stopped under the test head, allowing very large or particularly delicate products to be tested under stationary conditions.

There is a choice of 1, 2 and 4 reject bins.



Pressure head applied on tray



Catch arm rejects on seal tester

Features and benefits

Checking 100% of production at unrivalled speeds

Every single pack is checked at the highest possible speed for its size and characteristics, and only poor quality packs are rejected. The seal tester also prevents production inefficiency by rejecting packs stuck together or of the wrong size.

Sensitive leak detection and allocated reject bins

Ishida's proven leak detection technology applies the correct pressure to each pack to find leaks instantly and tirelessly, greatly surpassing manual inspection. Different bins can be allocated for each reject type, enabling different rework processes and preventing double handling.

Simple to use and versatile

Operators benefit from intuitive touch screen interface with simple pack changeovers. All testing settings are saved to selectable presets, and user access is controlled with electronic keys with four different levels. Continuous operation is the norm, but the system can also be set to test packs arriving on an intermittent basis, using longer dwell time for even greater seal integrity checks.

Combine with label inspection and other equipment

The seal tester also makes a perfect platform for an Ishida vision system, capable of checking the most important aspects of pack labelling. Adding the vision system very cost-effectively converts the seal tester into a comprehensive pre-case-packing checking centre.

The seal tester can also serve as a reject unit for immediately preceding equipment, such as a metal detector, X-ray inspector or weigh-price-labeller.



Ishida Vision System – The intelligent policing of all aspects of your labelling

The Ishida vision system checks that your trays carry the correct labels – properly printed and applied in the right places. This integrated system ensures that vital labelling data is present and legible, highlighting deficiencies immediately.



Optional dedicated camera



Label inspection control

An extremely cost-effective option, the vision system removes non-compliant packs from your production line, protecting your reputation as well as that of the brands that you pack. It contributes to the management of accurate traceability and greatly reduces the chances of returns and fines.

The vision system will link with appropriate data across your system to carry out verification and send images and results for archiving evidence.

Features and benefits

- ▲ Used to provide imaging based automatic inspection of products
 - ▲ Scans a product to uncover defects and confirm the legibility of prints on packs
 - ▲ Uses specialised optics with industrial cameras to collect images
 - ▲ Detects and removes defective products before they reach the end of the production line
 - ▲ Full verification of products ensuring product consistency
 - ▲ Accurate and immediate feedback on product quality
 - ▲ Inspection of top and bottom
- It can also verify the overprinted information and legibility, including;

 - ▲ Price
 - ▲ Product weight
 - ▲ Barcodes or 2D codes
 - ▲ Price per weight
 - ▲ Dates
 - ▲ Label identity, location and orientation
 - ▲ Label presence



Some of the label parameters checked by the Ishida Vision System

Technical specification

Specification	QC-220 Pressure Seal Tester
Aperture Detection	≥1mm
Line Speed	Up to 140ppm
Maximum Pack Dimensions	200W x 300L x 100H
Minimum Pack Dimensions	40W x 70L x 10H
Environmental Conditions	Min 2°C, Max 30°C
Power Supply	230V AC, single phase
Number of Presets	100
Material	Stainless steel, aluminium, plastics
Control Panel	12.1" Colour LCD touchscreen

Working with you every step of the way

Our extensive R&D investment is directed at meeting the challenges of the fast-changing food industry around the globe.

We aim to support our partners fully, from the very start of the buying process, and you will find many equipment brochures, visual animations and case studies available on our website. When you are ready to make contact, a well-resourced network of Ishida companies, distributors and agents, extending across Europe, the Middle East and Africa, can provide advice and organise demonstrations and trials.

Installation is rapid and efficient. For integrated packing lines, we use proven project management techniques and methodologies, tuned to your key objectives and specifications.

A dedicated pan-European service engineering team helps to maximise the performance, functionality and reliability of our installed base. In addition, spares facilities are strategically placed throughout the territory, offering 24-hour delivery in most cases.



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