

Ishida AirScan

Leak-free packs assured, with
revolutionary speed and confidence





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Ishida AirScan In-line pack integrity tester

The unique Ishida AirScan tests the sealing of individual MAP (Modified Atmosphere Packaging) in-line. It detects holes as small as 0.5mm, at line speeds of up to 160ppm.

AirScan works by lightly pressuring each pack while testing the air around it for traces of excess carbon dioxide (CO₂), using laser technology.

Deviation from the specified MAP gas mix, as caused by leakage, reduces the product's shelf-life and may damage the end-user's relationship with the brand. It can also greatly harm the reputation of the manufacturer and retailer, and lead to the harsh financial penalties involved in recalls and returns.

By contrast, the fast, thorough check carried out by the AirScan builds confidence that every pack dispatched to retail will reach its consumer in top condition.

Examples of packaging suitable for inspection



Trays

Bags

Pouches



System features and benefits

Excellent results with a wide range of applications and pack types

AirScan can test a diverse range of products, from fresh meat, seafood, bakery, pasta and cheese products. Packaging media include trays, bags, flow wrap and pouches.

Unmatched speed in pack seal testing

AirScan's unique laser technology detects traces of escaping CO₂, at speeds of up to 160ppm. For most lines its speed not only meets current needs, but also offers considerable future-proofing.

Detection can cover the whole pack, or just the areas at risk

The customer can specify which parts of the pack to monitor. The AirScan is available as a top-sensing unit and as a 360 system, which includes under-sensing side sensing, reject confirmation and bin full sensor features.

Reduced waste, improved productivity and profitability:

AirScan quickly identifies and rejects individual leaking packs, saving on labelling and secondary packaging materials. What's more, this feedback instantly highlights sealing flaws, enabling immediate rectification and minimising losses in production and profitability.

The certainty provided by 'reject confirmation'

AirScan is a closed-loop inspection system. An alarm is raised for any leak detected which is not successfully rejected, further increasing confidence in your output.

Data your organisation can store, interpret and profit from

AirScan records all results, presenting them in a simple shift report. The Ishida Sentinel reporting pack, which can be used in conjunction with AirScan, provides a range of analytical tools to further improve sealing performance.

Trouble-free integration into your existing line

The AirScan top-sensing unit is readily positioned over any available conveyor section, preferably just downstream of the packaging machine. Its speed ensures that it will never cause a production bottleneck.

How AirScan detects the slightest CO₂ leakage



1. Rollers apply pressure to pack

2. Pressure forces MAP gas to leak from any damaged pack

3. Escaped MAP gas containing CO₂ is inhaled through sensing head
4. Inhaled sample flows through pipes

5. Laser analyses inhaled sample and detects increased level of CO₂

6. Reject removes faulty pack from line

Sensing head and reject options



Hard head roller



Pre-compression plate



Underside-sensing option



Side-sensing option



Standard air reject



Bin full and reject confirmation sensors

AirScan: more reliable than offline random testing

- ▲ Drastically reduces the risk of a faulty pack getting through by checking 100% of production
- ▲ The case for automatic leak detection grows stronger as increased implementation of automation shrinks the opportunities for human interaction to pick up errors
- ▲ The return on investment is more than justified by quantifiable risk reduction and production savings

AirScan: clear advantages over other in-line seal testers

- ▲ Marked speed advantage, with built in future-proofing as your line speed advances
- ▲ Comparable cost: no major investment saving in picking a system inferior to AirScan
- ▲ Backed by Ishida brand reputation for engineering excellence and widely based local support

AirScan: more flexible and economical than automated batch testing

- ▲ Avoids the high costs associated with gas sensor calibration and vacuum pump maintenance
- ▲ Immediate identification of sealing flaws: faults in sealing machine can be rapidly spotted and fixed
- ▲ Fast payback, calculated on savings in rework time and avoidance of production losses

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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