

# Quality Control

Range Brochure





Quality Control ▼

# Our Company

Ishida is a privately owned family run business, with our worldwide headquarters in Kyoto, Japan. Our President, Takahide Ishida, is the 5th generation of the Ishida family, having succeeded his father Ryuichi Ishida in 2010.



As a world leader in the design, manufacture and installation of end-to-end weighing, packing and quality control solutions for the food industry, helping manufacturers increase automation and achieve compliance, reduce cost and downtime, increase operational efficiencies and brand protection, and maximise profits. With an installed global base well in excess of 180,000 industrial machines, covering a huge number of applications and end markets, the company is the undisputed world market leader for multihead weighers and one of the leading global suppliers of snack food bagmakers, X-ray inspection systems, checkweighers, graders, traysealers, leak detectors and Industry 5.0 solutions.

Ishida opened its first overseas subsidiary, Ishida Europe, in 1985. The Ishida Europe headquarters is in Birmingham, UK, and serves Europe, Middle East and Africa (EMEA). We have wholly-owned Ishida sales and service operations in 11 countries, and have committed, experienced agents and distributors in a further 30 countries.

## Our people

The wealth of knowledge and experience of Ishida personnel ensures that our customers receive best in class solutions to improve their weighing, packing and quality control operations. This means our customers can focus on their core business, while we focus on solving their challenges.

## Our innovations

Research and development are central to the philosophy of Ishida's business. Ishida Europe uses experience, creativity and state-of-the-art technology to develop solutions to enable our customers to push new competitive boundaries.

To support the requirements of evolving food markets and in addition to our product development centre in Kyoto, Japan, we have UK product development facilities in Birmingham and Poole. This enables us to deliver locally designed and tailored solutions to suit our customers needs.

Aiming for continuous technical improvement, our latest innovations include tray sealers, x-ray inspection systems and end of line packing solutions.

## Our customers

In 1972, we developed the first ever multihead weigher for whole peppers. Since then we have provided weighing equipment for thousands of food and non-food applications, including more than 70,000 multihead weighers.

**Takahide Ishida**  
(President)

# A Complete End-of-Line Quality Control Solution

Ishida is capable of offering complete line solutions of our own or outsourced products.

## 1. Weighing & filling

A complete solution designed to integrate effortlessly with modern weighing and filling systems, getting your product securely packed and ready for the next stage of quality inspection

- ▶ Single -tube ITPS-AS technology
- ▶ Twin-tube ITPS-AS technology

## 2. Quality control

Ensuring all packaging parameters are correct, including foreign body detection, seal integrity plus weight accuracy.

- ▶ Seal testers for pillow packs
- ▶ Seal testers with vision systems for trays
- ▶ AirScan CO<sub>2</sub> Leak Detector
- ▶ Checkweighers
- ▶ X-ray inspection systems

## 3. End of line packaging

A fully integrated end-of-line system designed primarily for snack producers. Its capabilities include pack handling, case erection, packing, and case closing.

- ▶ ACP-700 Casepacker



# X-ray inspection - foreign body detection and much more

X-rays can evaluate the varying densities in a product or pack to reliably identify dangerous foreign bodies such as metal pieces, glass or ceramic fragments, stones, bones and high density rubber or plastic.

## Where X-ray inspection is used

X-ray inspection of finished packs or secondary packs is very common, but the technique is also widely used for checking incoming raw materials, or even within the production process itself.

## What's unique about Ishida X-ray equipment?

Performance depends mainly on three factors: the X-ray generator and associated electronics that produce the rays, the sensor that picks up the rays that have passed through the product and the software that analyses the resulting image.

Ishida offers a range of high quality generators as well as line sensors with very small pixel sizes, resulting in unrivalled foreign body detection. Combined with Ishida's unique and patented GA (Genetic Algorithm) technology, these factors optimise detection sensitivity for commonly occurring foreign bodies while minimising costly false positives.

## Bringing quality control to a new level

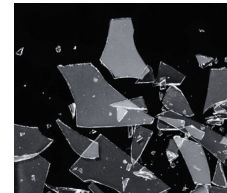
The quality control benefits of x-ray technology go far beyond product safety. With the right inspection system you can:

- ▶ Identify missing items
- ▶ Detect product inclusions in trays
- ▶ Ensure correct pack fill
- ▶ Monitor product shape and completeness

## Detection of foreign bodies



Metal



Glass



Stones



Bones



Ceramic



Rubber

## X-ray inspection throughout your production process



Bulk raisins



Packed raisins



End of line packaged product

# The X-ray range

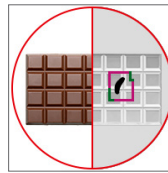
You can rely on our advanced technology for the sensitivity levels and pack formats you require.

From standard inspection to ground-breaking levels of monitoring and product insight, we offer systems to meet your exact current needs or to future-proof you against new challenges in your facility.

To cater for both primary and secondary packaging applications, detection widths range from 240mm to 650mm.

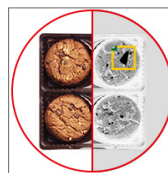


Ishida X-ray Inspection System



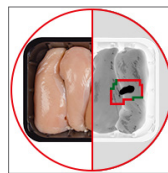
## EN - Versatile solutions

Affordable and easy-to-integrate packages, designed to exceed common industry detection specifications across a wide range of applications.



## GN - Enhanced detection

Enhanced technology, providing optimised detection across many product groups and their contaminants.



## G2 - Dual energy

A dual energy detection system can pick up lower density contaminants such as poultry bone and can be very helpful with complex or overlapping products.



## IX-PD

Compact in size and big on performance, the IX-PD Series features photon-counting technology for contaminant detection rates up to 60% more accurate than previous dual energy X-ray systems.



## Large Format

Achieves high detection sensitivities in secondary packaging, including Eurotrays and cartons, and ingredient bags.



## Side Beam

Reliable inspection of upright containers such as PET and HDPE bottles, tetra packs, stand up pouches and composite containers.

# Checkweighers: your key to weight compliance and production optimisation

Checkweighers contribute to product quality by ensuring each pack falls within a pre-defined weight range. Their use in this role is overseen by organisations like OIML and WELMEC and enforced through directives like MID (Measuring Instruments Directive), and their data can be kept as evidence of compliance.

However, they can also contribute to product integrity (such as ensuring the correct number of pieces per pack) and, when combined with a metal detector, help eliminate potential harmful foreign bodies.

## Where are checkweighers used?

Checkweighers are used in a wide variety of applications and locations within a product line, ranging from ensuring accurate weight of naked and packaged products to detecting missing items in cartons or boxes.

Typically they are used as a final check on packaged products and applications guidance and support around product infeed and rejection is often critical to achieving a suitable level of performance at site.

## What's unique about Ishida Checkweighers?

We maintain a strong R&D capability in the development of load cells, electronics and software. These are developed and brought to market entirely in-house. They offer unique SNR (Signal to Noise Ratio) characteristics which provide both high accuracy and speed.

Our weigh cells also offer a variety of novel features like force dislocation mechanisms that protect load cells from excessive loads, along with market leading AFV (Anti-Floor Vibration) capability. Only Ishida designed, developed and manufactured systems carry the Ishida brand name.

## Working together on your application needs

You won't find a partner with more checkweigher experience and expertise than Ishida. We now offer our largest ever range whilst maintaining a strong technical edge, supporting entry level requirements through to high speed production environments.

We use that edge and our applications expertise (based on an extensive installed base worldwide), to fully understand your needs. Whether you seek a set of brand new production lines or simply want to integrate a single machine into an existing line we will spend the time to fully understand your brief and come up with the optimum solution.

## Checkweigher range options



**Weighing pre-packed product:** this enables re-processing without wasting pack materials. Results can be fed back to filling systems upstream.



**Checking packaged products:** checkweighing and metal detection systems are often needed to comply with retailer or regional requirements.



**Checking secondary packaging:** checkweighing can ensure that cartons or crates contain the right number of packs.

An unrivalled choice, backed by industry-leading knowledge and advice.

Ishida's range of checkweighers are recognised internationally and across industry for their accuracy and robustness.

Strain gauge or force balance loadcells, simple keypad interface or top-of-the-range colour touchscreen, we offer not only the widest choice but the knowledge and advice to go with it. Our worldwide applications experience covers not just checkweighing but whole production lines, packing operations, factories and multi-site enterprises, so that we are uniquely placed to link your checkweighing operations into surrounding systems and environments.



Ishida Checkweigher with ancillaries



## Performance-Line

### Performance with value

Our entry level platform offers simplified operation and outstanding reliability. It comes in two range options: up to 1.2kg and up to 5.0kg. These models can operate in MID and non-MID mode and are offered with a range of options to meet many different applications.



## Excellence-Line

### Versatility and precision

This highly versatile platform comes in two weight categories: up to 1.5kg and up to 6kg, both offering MID and non-MID performance. Depending on your requirements for speed and accuracy, either weight range can operate in precision or standard mode.

These checkweighers offer our most extensive range of options to facilitate even the most challenging applications.



## Advance-Line

### Accuracy with speed

These innovative models feature force balance technology and offer a weight band up to 1.5kg. They can operate in precision or standard mode, and can handle very low weights at high speed, in MID or non-MID mode. For maximum flexibility, they can be tailored to meet a wide range of applications..



## Carton-Line

### Handling heavy weight and volume

Carton-Line checkweighers are an excellent way of ensuring that cartons/ boxes contain exactly the right number of primary packs. In line with this task, standard weight ranges are up to 15kg, up to 30kg and up to 60kg.

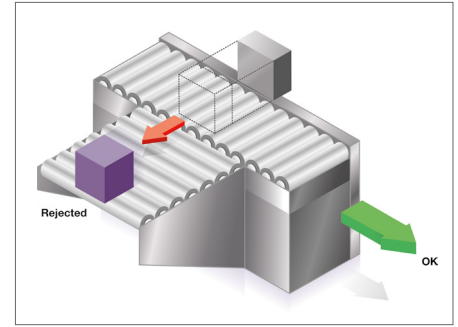
## Reject options



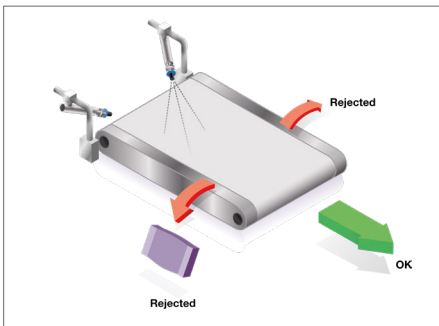
**Metal detection:** multi-frequency and multi-spectrum units can be integrated.



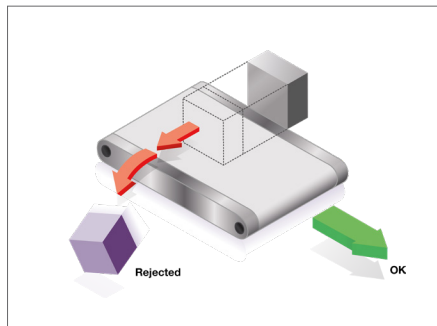
**X-ray inspection:** foreign body detection can be extended beyond metals by incorporating this increasingly in-demand technology.



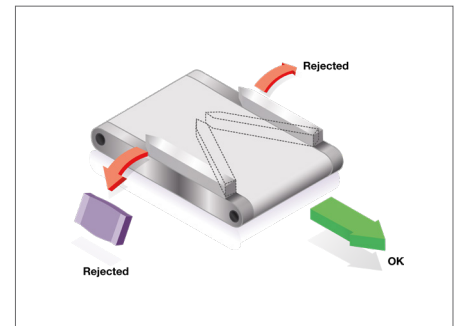
**Roller Track:** For delicate and/or heavy products then roller tracks can be used to take rejected products.



**Air reject:** best for high speed, relatively low-weight packs.



**Pusher reject:** for heavier pieces at relatively low speeds.



**Arm reject:** for medium speed and weight applications.

We offer all our checkweighers with a range of options to meet different application requirements.

### Control interface: minimising the staff training burden

Our simple-to-use but information-rich interfaces can take the form you and your team find most convenient, whether keypad or touchscreen.

### Optimising removal of non-compliant product

Product weight, size, shape, and fragility, together with production line speed, will determine which reject system we recommend. For example, a high-powered air blast may be best on fast lines. Mechanical arms often work well for irregular or heavy packs, while a pusher reject is suitable for heavy products moving at relatively low speeds.

### Reject receptacles for safe storage

Receptacles into which product can be diverted include fully enclosed bins. Roller tracks can be provided, to move more fragile products to reject and inspection or for re-work.

### Software options that extend functionality

Ishida checkweighers feature an impressive level of functionality as standard. Additional software options include feedback control, to enable filling machines to respond to variations in the actual weights being packed, and reference weight renewal which can alter the nominal weight target in line with environmental changes.

### Metal detection at a level appropriate to your product

Inspection for metal fragments in many products can be reliably carried out by installing a multi-frequency metal detector. These machines offer a choice of inspection frequencies. However only the single most appropriate frequency is used to inspect a given product.

Products with high water and salt content can give false positives with these systems and are more reliably inspected using multi-spectrum metal detectors, which simultaneously pass many frequencies through the product. Ishida can slot either type of metal detector neatly into your checkweigher, and has the expertise to help you choose which best suits your requirements.

# Pack leak detection - bringing new certainty to shelf life

Pack leaks remain one of the primary causes of product returns for retailers. In-line leak detection systems utilising pressure or laser technologies accurately detect even the smallest leaks at high speeds, safeguarding product integrity and extending shelf life.

Leak testing, once a slow batch process can now take place in-line. It is non-destructive, so there is no damage to packed products and any rejected products can be recycled.

Ishida's advanced in-line leak testing now enables 100% non-destructive inspection protecting the integrity of the product and keeping defective packs off the shelf.

## Where does leak detection fit into your line?

Leak detection typically positioned after primary packaging, serving as the final quality assurance step to verify the integrity of each individual bag or tray.

## What's unique about Ishida leak detection?

Ishida is unique in offering in line solutions tailored for both MAP and non-MAP applications.

**The Ishida AirScan** uses advanced laser technology for fast, ultra-sensitive CO<sub>2</sub> detection in MAP packs.

For MAP applications that do not involve CO<sub>2</sub>, as well as for non-MAP applications, Ishida offers two dedicated seal testers.

**The Ishida QC220** is designed for products such as wet wipes and protein items packaged in trays.

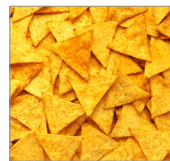
**The Ishida TSC-AS** suited for dry snack products in pillow packs, providing precise monitoring to keep defective packs off the shelf. Both systems apply precise pressure and detect even the smallest deviations in the inspection head, safeguarding product quality and protecting consumer confidence.



Many products need MAP (modified atmosphere packaging) incorporating CO<sub>2</sub>

## Modified atmosphere products (MAPs) using CO<sub>2</sub>

Products such as meat, baked goods, cheese, and pasta often contain CO<sub>2</sub> in their packaging atmosphere to inhibit microbial or mould growth. Depending on the application, CO<sub>2</sub> may be blended with gases such as oxygen or nitrogen. These packs can be inspected using highly sensitive techniques to detect even the smallest CO<sub>2</sub> leaks, ensuring product integrity and maintaining quality on the shelf.



Snacks are also MAP-packed, but typically use N<sub>2</sub> within their gas flush process

## Modified atmosphere products not containing CO<sub>2</sub>

Crisps and extruded snacks are typically packed at high speeds using a nitrogen flush to preserve freshness. Leak detection involves applying controlled pressure to the sealed pack and monitoring for any deformation that could indicate a compromised seal. Given the fast pace of snack food production, this inspection is carried out with high-speed precision to ensure product integrity.



Large numbers of products do not need MAP

## Products packed without a modified atmosphere

In many cases, packs are sealed with ambient air, yet maintaining integrity is critical to protect moisture levels and prevent contamination from foreign particles or micro-organisms. Pressure-based leak detection accurately identifies compromised seals, ensuring only fully secure packs reach the shelf.

# High-speed leak detection for bags containing dry products

Fast, in-line leak detection tailored for packed dry goods ensuring consistent quality and operational efficiency.

Designed to interface seamlessly with bagmakers, the TSC efficiently identifies leaking or incorrectly-inflated packs at speeds of up to 150 packs per minute ensuring quality without slowing production.

The TSC performs leak detection by applying downward pressure onto the external surface of the pack, eliminating the need for internal gases such as nitrogen, CO<sub>2</sub>, or modified atmospheres. A sufficient level of air-fill within the pack enables accurate identification of leaks.



**Ishida TSC-AS - Inclined in-feed**

The new TSC-AS Series offers a modular design with flexible configurations to meet individual layout requirements.

## Main features

- ▶ Leak detection up to 150 bpm
- ▶ Integrated HMI for streamlined operation
- ▶ User-friendly interface with intuitive drop-down menus
- ▶ Comprehensive inspection analytics for quality assurance
- ▶ Storage capacity for up to 500 product presets
- ▶ Compact design to fit into the most challenging production spaces

## Additional options

- ▶ Pack stabilisers for high-speed production
- ▶ Choice of in-feeds
- ▶ Choice of reject systems
- ▶ <1-minute optional automatic product changeover
- ▶ External data storage
- ▶ Choice of body finishes

## Typical applications



Snacks



Crisps



Pasta



Rice



Bakery products



Salad packs

## Additional applications

Any dry product sealed in a pillow pack with adequate air-fill, allowing the inspection head to press against the film without.

# Fast, decisive screening to suit your pack type

Our leak detection portfolio integrates into a wide range of production lines, covering both MAP and non-MAP products. Each system will pick up pinholes and tears right down to the lowest size limits currently detectable, at industry-leading line speeds for any given pack type.



Ishida QC220

## QC220

### Pressure Seal Tester for non MAP/ MAP products

These pressure seal testers are typically used with rectangular packs in non-MAP or MAP products that do not contain CO<sub>2</sub>. Pressure is rapidly but gently applied to each pack, after a preliminary smoothing and conditioning of the pack.

Any rapid drop in pressure, as picked up by sensors in the tester, indicates a pack integrity problem, and is followed by rejection.

Applications range from wet wipes to fresh produce, with detection of small-aperture leaks at speeds of up to 140ppm.

### QC220 options

The QC220 Seal Tester offers a range of options to match different applications, including:

- ▶ Arm or HD air reject
- ▶ Up to for 4 bins for rejected products
- ▶ Roller tracks for fragile rejected products
- ▶ Guides for different product types
- ▶ Conveyor and bead type heads
- ▶ Top and bottom vision camera for label inspection

## Typical applications



Fresh Foods



Ready meals



Snacks



Meat



Poultry



Fish

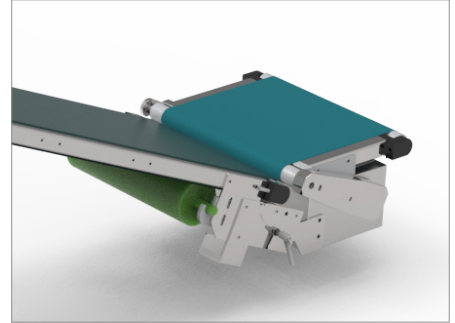
## Leak detection range options



An underside conveyor is provided with the AirScan platform for sensing around the complete pack.



To fully monitor pack labels, a vision system can be mounted on the QC220 platform.



Incline or horizontal in-feed conveyor available dependent on customer requirement.

## Ishida AirScan

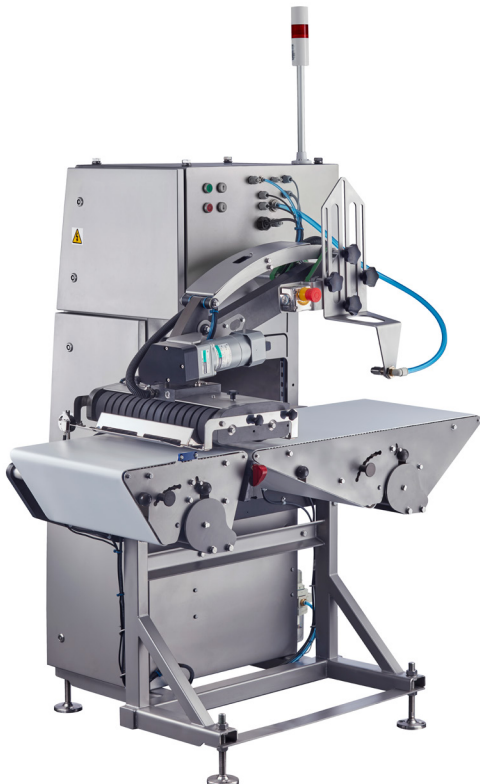
### Unrivalled detection of escaping carbon dioxide

Many MAP products have a proportion of CO<sub>2</sub> in their pack atmosphere. Ishida's innovative AirScan system detects leaks from apertures as small as 0.5mm at speeds of up to 160 ppm.

Key to the market leading sensitivity of the AirScan is a laser detection unit tuned to pick up the unique vibrations of the CO<sub>2</sub> molecule. These vibrations absorb energy from the laser beam, triggering an alarm and rejection of the pack. To ensure that any escaping CO<sub>2</sub> reaches the detector, rollers apply slight pressure to each pack, speeding up the flow of gas through any openings. AirScan gives reliable results even when the CO<sub>2</sub> content of the pack atmosphere is as low as 10% w/v.

### AirScan options

Where packs or contents are particularly fragile, or vary significantly in height, standard rollers can be replaced with a soft roller head. A precompression plate is also available for low height and larger diameter product packs.

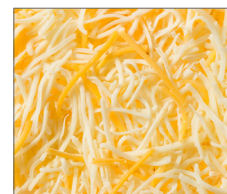


Ishida AirScan

## Typical applications



Ready meals



Dairy



Fresh pasta



Fresh/ Frozen Foods



Biscuits & bakery



Meat, poultry & Fish

# Software that supercharges your data

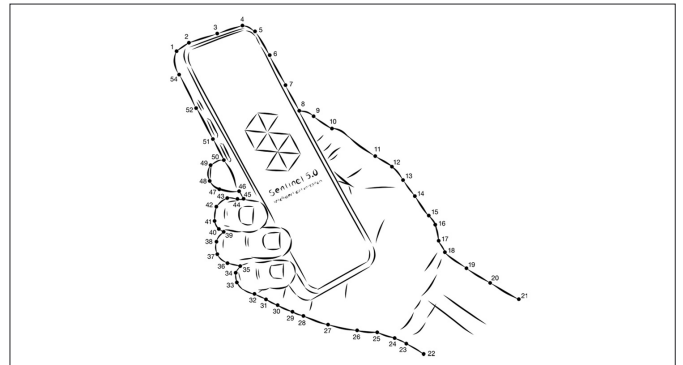
The quality control data you generate can go far beyond your immediate inspection objectives to materially improve the quality of your products and processes and increase profitability.

Ishida offers you software that unlocks the potential of thousands of recorded measurements that would otherwise remain as passive statistics.

## Sentinel 5.0

### Joined-up-thinking is smarter thinking

When it comes to optimising your quality control, joined-up-thinking is smarter thinking. With Sentinel 5.0 Production Monitoring, you can connect multiple systems through one integrated dashboard. Unlocking greater efficiency, reducing waste and downtime, and saving resources with digital proof of regulatory compliance.



### More control at your fingertips

With Ishida knowledge built in, advanced AI data analysis provides unique insights. Anomaly detection learns normal behaviour and detects sudden deviations and long-term trends - continually improving quality control processes. Sentinel 5.0 enables real-time, remote monitoring and preventative maintenance, with direct assistance from Ishida experts when needed. Reducing costly downtime and maximising production performance.

### Shaped around your needs

Sentinel 5.0 can be scaled to your requirements through a choice of platforms, while the dashboard is fully customisable for a more user-friendly experience. Thanks to its open architecture, it can easily integrate with your current systems, allowing you to maximise efficiency across all your assets – without additional investment.

# Regulatory compliance

Working closely with food producers and packers round the world has made us familiar with the challenges and issues they face on a daily basis. Close to the top of the list is compliance.

## Retailer codes of practice

These are rules put in place by groups of retailers, intended to set clear standards for their suppliers. They vary with each retailer. An example would be a code specifying how food products should be monitored for foreign bodies.

Commonly such codes insist that inspection systems should have RRC (Retail Reject Confirmation), a feature that ensures that any rejected pack has been physically removed from the line.

The Ishida approach, taking the above example further, would be to tailor the inspection solution to our customer's need, recommending RRC where the relevant code demanded it, and SRC (Simple Reject Confirmation), an equally effective guarantee of quality where it did not.

## HACCP

Hazard analysis critical control point (HACCP) is a methodology for ensuring food safety accepted by many governments, including the European Union.

To put together a HACCP plan, a food manufacturer will analyse their production process and identify critical control points (CCPs) where problems could arise. Some of these will be the points where automated inspection is needed, and it will be important to specify the level of any contaminants which the inspection system must pick up.

Ishida can assist food producers in deciding on the effective measure to use at any particular CCP within their process.



## MID

Within the EU, dynamic checkweighers operate under the Measuring Instruments Directive (MID), while in the UK they operate under "Weights & Measures". Both of these can place particular requirements on the performance characteristics of machines within particular applications.

All Ishida checkweighers comply with MID and as a recognised developer of inspection technology worldwide, and an organisation with experts in many markets, Ishida is very well-placed to be your partner in determining your approach to compliance with local regulations.

## Supermarket Reject Confirmation System



Diagram indicates RRC for Checkweighers, however a solution can be offered on all quality control equipment.

# Our commitment to manufacturing and service excellence

We design and build most of the quality control equipment that we supply to Europe, the Middle East and Africa (EMEA) in a modern manufacturing facility at our headquarters in Birmingham, UK. The output includes checkweighers, X-ray inspection systems and leak detectors.

## Quality manufacturing - the Ishida heritage

In keeping with our Japanese engineering ethos, we use lean manufacturing tools such as Kanban stock control, Poke Yoke (failsafe) and Kaizen (continuous improvement) to achieve high quality levels and on-time delivery.

## Right First Time

Manufacturing is organised into product cells, each with responsibility for building and testing particular machines in both standard and bespoke configurations. Team members are selected for their experience and receive continuous structured training. Engineering and operational teams work closely together to deliver a "right-first-time" result, signing off on the final build.

This combination of skills and care works to ensure that every product is delivered both to our high standards and to the customer's satisfaction.

## Unrivalled support throughout your new equipment's life-cycle

When you purchase quality control equipment or software from Ishida you can be confident of real and lasting support. We have skilled and knowledgeable applications experts to support you through your decision-making process and installation, providing guidance on machine selection and configuration, and assisting with factory-based and on-site trials.

## Widest Service Network across EMEA

During the ongoing life cycle you will benefit from our unrivalled service network. We have offices across the EMEA area to provide a strong and well-qualified engineering presence close to you, with tiered central support available as required, as well as central and regional help desks.

Our expert teams in the different QC technologies can deliver training directly to you, centrally or on-site. To further help you meet your OEE targets, we also ensure that crucial spare parts are never far away. Our central spares hub is supported by regional stock hubs and a brand new European Distribution Centre.

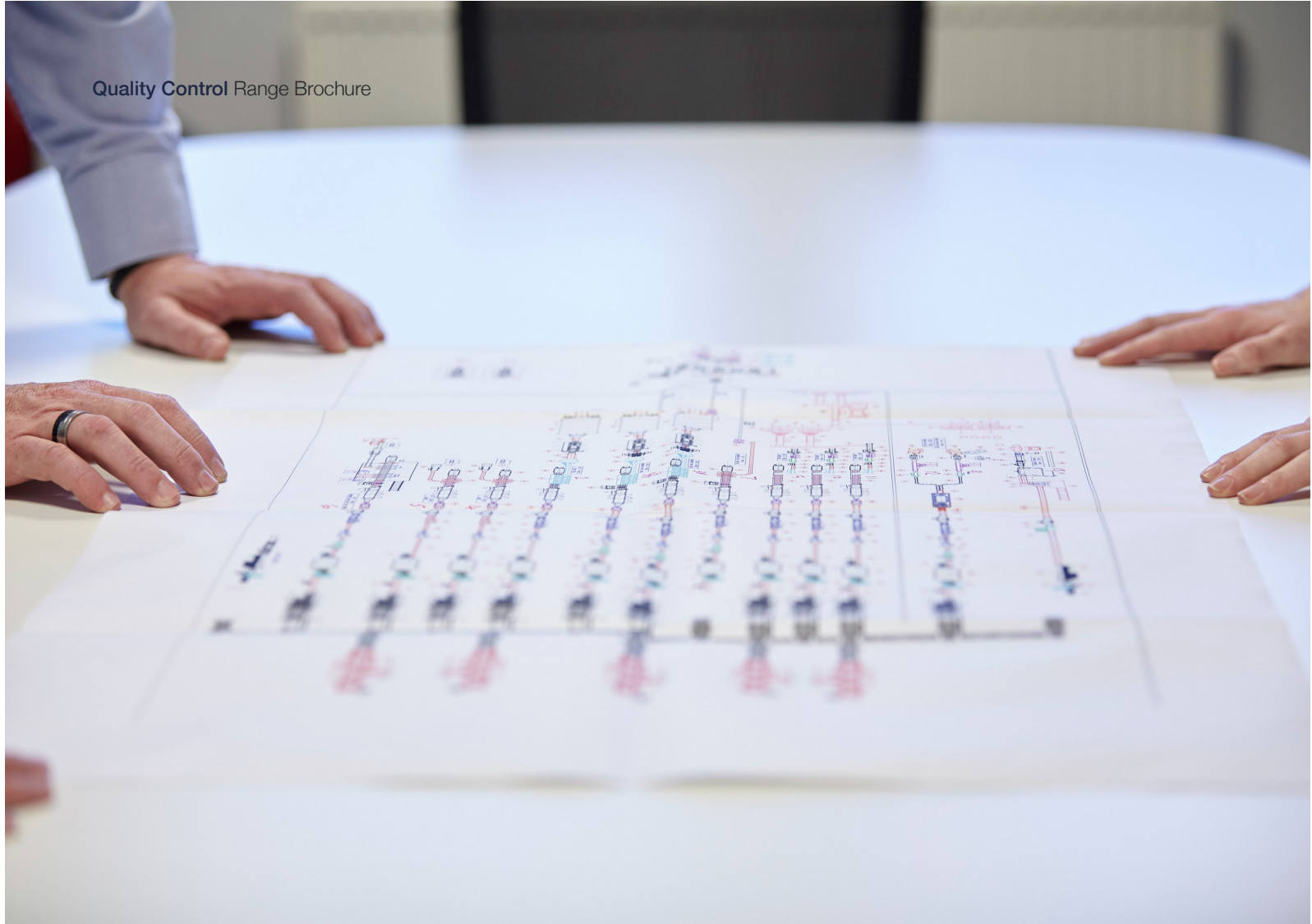
## Advanced Services - Remote Diagnostics

During the ongoing life cycle you will benefit from our unrivalled service network. We have offices across the EMEA area to provide a strong and well-qualified engineering presence close to you, with tiered central support available as required, as well as central and regional help desks.

We can also provide software packages to enable not just remote diagnostics but actual remote intervention, to solve and correct line issues where appropriate.

In summary, quality control equipment from Ishida ensures you have a partner in your production process who will materially help maintain your desired performance levels far into the future.





# Complete project management

Expert project management can reduce both cost and risk associated with the design and implementation of new packing lines, halls and plants.

Ishida offers an internationally resourced, experienced and highly capable project management service specialising in the area of food packaging technology”

Successful project customers include most of the world’s top 10 food manufacturers as well as many small and medium-sized enterprises.

Ishida project management offers you:

- ▶ A wide choice of models of working together, from fixed-price turnkey projects to managing agent agreements
- ▶ Single source of best-in-class solutions
- ▶ Excellent project analysis and planning
- ▶ An unrivalled concentration of food industry, packing technology and project management expertise
- ▶ An excellent knowledge of the legislative and regulatory pitfalls involved
- ▶ The committed support of a major international company in seeing your project through to sustained, productive operation
- ▶ Resources throughout Europe, Middle East and Africa
- ▶ A 20-year track record of successful projects

# Service and operator training packages



Flexible training approach, meeting your exact needs:

- ▶ Training can be covered at a variety of levels to suit your precise requirements through our dedicated training team
- ▶ Training can be on or off-site
- ▶ Training documentation and presentation materials can be purpose-designed
- ▶ A comprehensive interactive learning suite is also available (for self-paced learning)



Spare parts support and response rates (with option of My Ishida Europe program)

- ▶ Ishida holds large equipment stocks both centrally in the UK and within regional offices
- ▶ We offer the option of dealing directly with our local subsidiary, local Agent or provide the option of My Ishida Europe (Ishida Online Spares and Parts Management Service).

Operator and customer engineering training:

One and two day courses covering:

- ▶ Operator level set up and fault finding
- ▶ Advanced set up, electronic and mechanical fault finding



My Ishida Europe - Ishida online spares and parts management service

- ▶ Avoid unnecessary down-time
- ▶ Accessibility of parts manuals
- ▶ Access to your secure account 24/7



# For every challenge, there's Ishida

Want to cut food and packaging waste, and reduce costs? Find minute foreign objects and big performance gains? Discover smarter ways to significantly reduce product giveaway?

We've been turning questions into answers for 130 years, which means we have all the product solutions, sector expertise and proven know-how you need

### Trust Ishida

The most important question and the one we answer every day. Providing more compelling reasons for you to put your trust in us.

- ▶ Full range of weighing, x-ray inspection, checkweighing, tray sealing, packing and leak detection equipment, plus supporting software
- ▶ Fast and efficient installation, aligned to your specifications
- ▶ Built to the highest industry standards and powered by the latest technology, including advanced AI
- ▶ Specialists in both food and non-food applications
- ▶ Complete flexibility from a single machine to a fully integrated line solution
- ▶ Solutions fully tailored to your sector and your products
- ▶ Dedicated parts and servicing support, with 24 hour delivery in most cases
- ▶ Expert training online or at your site
- ▶ Dedicated engineers on call 24/7/365



Helpline

Spares

Service

Training

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