

# Bespoke protein solutions





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# Your Partner in Protein

The protein processing and packaging market is constantly evolving, bringing new opportunities and challenges. With over 20 years sector experience, we understand your requirements and can shape our specialist expertise, proven technology and dedicated support around your needs.

**Smarter**

Our consultative approach allows us to work as partners, understanding your business and your precise requirements to design a bespoke solution that adds value in every way.

**Faster**

Our innovative automation brings repeatable speeds that aren't possible with human hands, with the added hygiene benefit of less human touch points to raw products.

**Together**

We're here for you at every step, developing new ideas, delivering process gains and providing dedicated support, from training to servicing and parts.

**All you need, all in one**

Want to maximise throughput while reducing product giveaway? Grade and batch for maximum yield? Automate the handling of sticky products? Prevent bones and foreign body contaminants? Maintain greater shelf life through pack integrity? For every protein challenge, there's a proven Ishida solution.

As designers, manufacturers and installers of specialist protein machinery, we shape integrated, end-to-end solutions around your unique needs. Through our specialist consultancy services, we can work with you at every stage, from product design and management to installation, commissioning and training. The full turnkey package for every requirement and budget.

**Smarter technology. Seamless solutions**

We have developed a wide range of machines, from smart weighing and inspection systems to efficient packing solutions. All designed to work seamlessly together. Unlock even greater performance through our Sentinel 5.0 Production Monitoring, putting the power of data and advanced AI at your fingertips.



# For every challenge, there's Ishida.

Our bespoke protein solutions are tailored to meet your specific challenges. At every key stage in the process.

Our fresh protein industry specialists are here to assist you with your challenges within weighing, packing, inspection and projects to solutions. Join us for an informal meeting, where your needs for improvements, automation and upgrades can be discussed and questions answered.

**See how we can turn your protein challenges into solutions:**

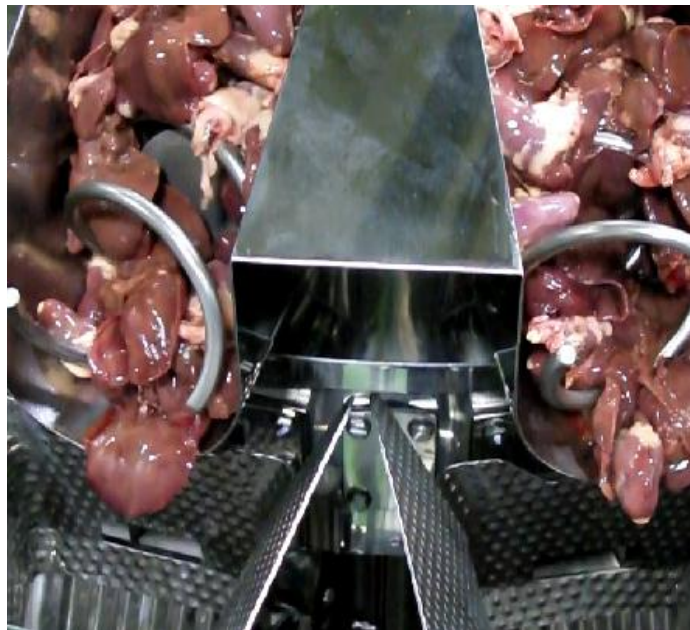
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# Weighing

We understand the challenges that weigh heavily on you. From maximising product flow to reducing giveaway. Choose from a wide range of weighing solutions designed to handle fresh and sticky produce, maintain output, provide accurate and consistent weighing and deliver precise portion control.



## Screw Feed CCW

Our specialist model for fresh protein applications, the Screwfeeder Series multihead weigher is designed to handle sticky and bulky protein products at high speed. Overcoming flow challenges typically faced with vibratory feeders and reducing giveaway to maximise profitability.

- ▶ Up to 80 weighments per minute
- ▶ 1.5 to 7litre hoppers
- ▶ Hopper configurations from 14 to 20 heads
- ▶ Designed to reduce sticking and increase flow

### Benefits

- Faster**  
Heavy-duty rotating dispersion table and powerful screw feeders keep product moving at speed, without disturbing quality or creating food waste.
- Efficient**  
Screw feeder control maintains consistent flow, with optional pool-hopper sensors capable of enhancing the weighing process.
- Accurate**  
Zero compromise on weighment accuracy, achieving high levels of accuracy at up to 80 weighments per minute.



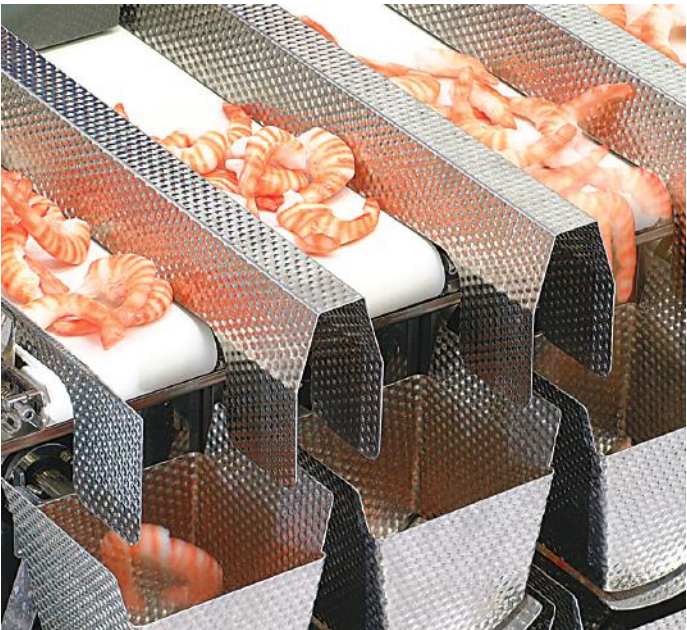
## CCW-AS with L1 Surface

The AS Advantage Series Multihead Weigher, combined with our L1 Surface design, offers an innovative solution for handling products that previously required semi-automatic Fresh Food Weigher models. This advancement enhances customers' ability to automate production lines, improving efficiency and reducing manual intervention. Additionally, it is designed to handle a variety of products traditionally suited to screw feeder weighers. With a compact footprint and reduced height, this model integrates easily into production environments while optimising space and functionality.

- ▶ Ultra-powerful radial feeders
- ▶ Smart control systems including tablet HMI
- ▶ Low energy and noise
- ▶ IoT connectivity

### Benefits

- Advanced Interface**  
Smart tablet touchscreen for simple system operation, IoT connectivity and data handling
- Advanced Eco Benefits**  
Sustainable design reduces energy consumption, noise and chemical / water usage



## Fresh Food Weighers

Specifically designed to handle sticky, fresh proteins with ease. The Ishida Fresh Food Weigher is a specialised weighing solution that can handle a wide range of fresh and sticky products. Fresh Food Weighers provide accurate weighing for hard to handle products, maximising efficiency, minimising giveaway and reducing labour costs. A flexible solution, they are ideal for short production runs where quick product changeovers are essential, or on long production runs with a tricky product.

- ▶ Specially designed to handle fresh and sticky produce
- ▶ Perfect for short production runs and height-restricted sites
- ▶ Choose from up to 12 heads
- ▶ Up to 70 weighments per minute

### Benefits

- Accurate**  
Optimised product flow at up to 70 weighments per minute and product giveaway of less than 1%
- Compact**  
Small machine footprint, providing a cost-effective solution where space is limited
- Simpler**  
Rapid changeovers enabled with easily removeable contact parts and hygienic design









Flex Graders

Our Flex Grader system is designed to be compact, hygienic, fast and accurate. Choose from a range of automatic grading, batching and counting software, including fixed-weight and target-weight solutions. Access dynamic weighing, increased throughput with gentle product handling, and guaranteed accuracy every time, even at high capacity.

- ▶ Upgrade or downsize your workstations as needed with modular separator
- ▶ AI-based batching technology accurately predicts pieces for best possible selection
- ▶ Available in multiple configurations and sizes to suit most requirements

Benefits

-  **Smarter**  
Automates difficult product handling whilst maintaining product quality
-  **Accurate**  
More accurate weighing due to proven slack belt technology, avoiding inaccuracies caused by product transfer
-  **Efficient**  
Minimal giveaway due to AI-based batching technology
-  **Flexible**  
Increased flexibility due to the modular design and enabled program changes mid-production







Robot Graders

The RobotGrader is a fully automated grading and batching system that delivers precisely packed fixed weight trays of fresh poultry, meat or fish pieces straight from processing. Weighing and 3D scanner, together with smart slack belt functions, allow your product to be graded and packed at a faster rate. With minimal product giveaway and weighing inaccuracies. Enabling you to achieve higher profitability compared to traditional grading equipment.

- ▶ Up to 320 pieces per minute
- ▶ Up to 160 two-piece packs per minute
- ▶ Multiple configurations and sizes to suit your requirements
- ▶ Reduces manual labour by up to 80%

Benefits

-  **Smarter**  
Automates difficult product handling whilst maintaining product quality
-  **Accurate**  
Slack belt technology delivers more accurate weighments, avoiding errors caused by product transfer
-  **Efficient**  
Minimal giveaway due to advanced batching technology
-  **Flexible**  
Modular design and programs that you can change mid-production





# Inspection

Nothing is more important than ensuring safety, quality and compliance in the protein industry. Reassure your customers and protect your reputation with our wide range of specialist inspection systems.



## IX-PD Photon Counting Dual Energy X-ray

Enhanced imaging through advanced processing technology differentiates between the product and minute contaminants with pin-point accuracy, reducing inaccurate identification. Photon counting detectors combined with Ishida-patented Genetic Algorithm imaging means you can quickly inspect your food products for contaminants - even those with low density - while enjoying superior detecting sensitivity.

- ▶ Detects low density and minute foreign objects
- ▶ High performance detection in fast moving environments
- ▶ Effective detection inside overlapping or uneven products
- ▶ Reduced false positives or inaccurate detection

## Benefits



### Accurate

Improved detection sensitivity, even in complex and overlapping products. For example, sealing rubbers and low-density foreign objects such as bones



### Reliable

Detects foreign bodies in once hard-to-inspect overlapping and uneven products without compromise



### Advanced

Cutting-edge imaging technology tells the difference between food and foreign body densities, reducing false positive detection



### Efficient

Mitigates oversights in visual inspections



### Thorough

Detects even minute foreign objects such as stainless steel wires as small as 0.2mm in diameter









### IX-G2 X-ray Inspection System

Using dual sensor technology, this flexible X-ray food inspection system detects low-density foreign bodies as small as 2-3mm in size - such as bone, shell, and rubber, in poultry and other food products. It also identifies contaminants in overlapping products or those with uneven surfaces.

- ▶ Detects low density foreign bodies
- ▶ Identifies stainless steel fragments under 0.6mm
- ▶ Operable with conveyor speeds up to 60m/min
- ▶ Variable voltages between 40 – 100v
- ▶ Variable current between 1 – 8mA
- ▶ Durable stainless-steel design
- ▶ User-friendly touchscreen control

### Benefits

-  **Smarter**  
Unique sensitivity – detects low-density contaminants for increased accuracy and minimal false rejects
-  **Multi-tasking**  
Can perform multiple quality control tasks, including product counts, integrity checks, and weight estimation
-  **Unique**  
Patented Genetic Algorithms: develop image analysis filters for your target foreign bodies
-  **Adaptable**  
Adjust feeds, conveyors, and detection settings for poultry, red meat, and fish products



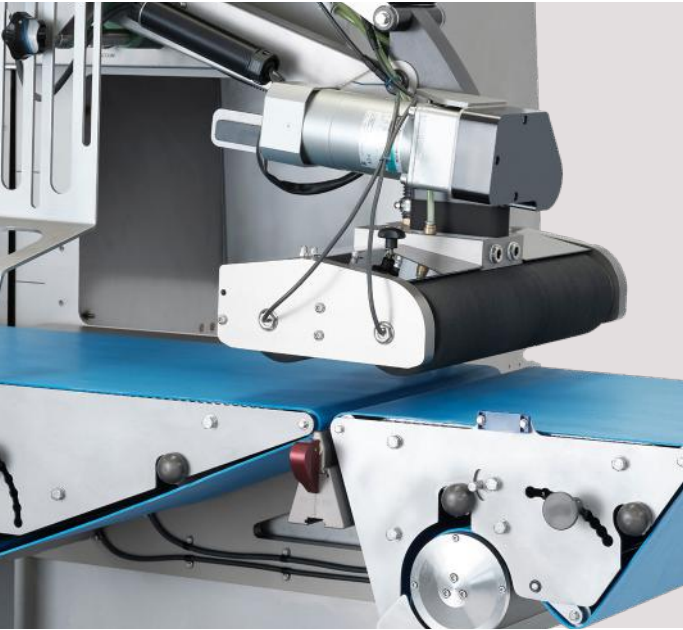
### DACS Checkweighers

Want to maintain weight accuracy to ensure compliance and minimise product giveaway? Now you can find the perfect balance for your business with the DACS-GN-S Excellence-Line and DACS-GN-F Advance-Line checkweighers. We will help you specify the right machine to achieve even higher standards in your quality control process.

- ▶ Up to 6kg maximum weight handling
- ▶ Accuracy levels to 0.1g
- ▶ Line speeds up to 480ppm
- ▶ Hygienic design reduces downtime with easier cleaning

### Benefits

-  **Fast**  
Pack tracking sensors on the machine ensure products being weighed are positioned precisely enabling high speed checks and reliable control over rejects.
-  **Precise**  
Patented technology, precision load cells, advanced electronics and software ensure pinpoint accuracy and weighing consistency needed in the industry.
-  **Reliable**  
We've been making checkweighers since 1975. The new DACS-GN embody the mechanics, electronics and software designed to deliver the expert reliability.
-  **Compliant**  
User-friendly local data capture guarantees compliance, enhances quality control, ensuring regulatory compliance and optimising production efficiency.






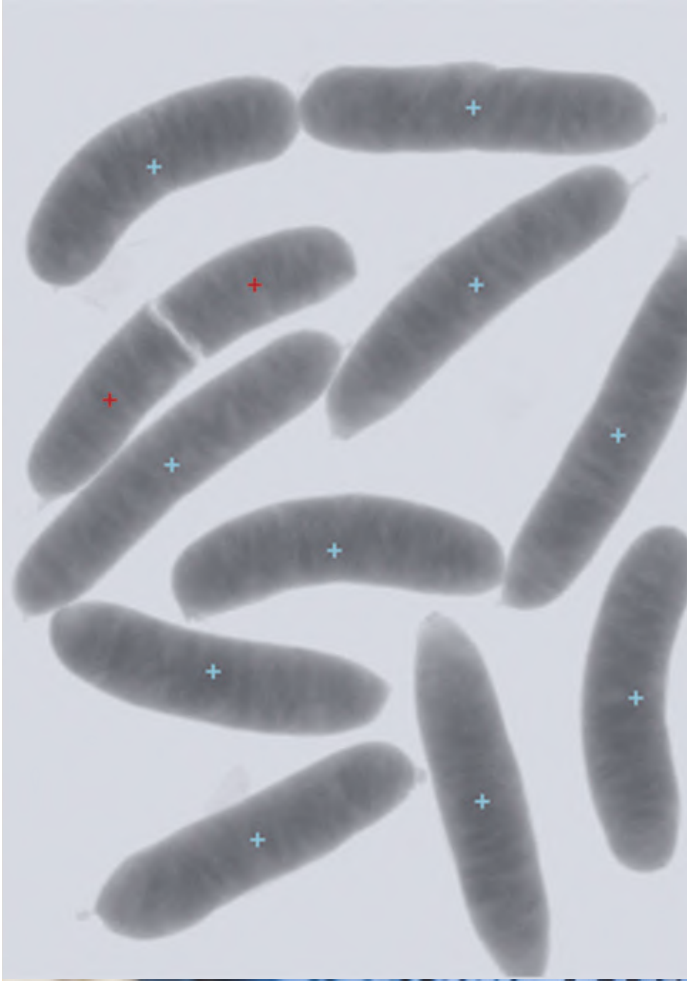
### Seal Testers

As we all know, testing seal integrity is crucial for packed products. When a seal of your products is compromised, the loss of protective atmosphere starts a chain reaction. Often resulting in customer complaints, costly returns and wasted batches. Our range of leak detection and seal inspection systems are specially developed to maintain high-level quality control that your retailers and consumers can trust.

- ▶ Choice of solutions ideal for protein applications
- ▶ Suitable for wide range of packs, bags and trays of all sizes
- ▶ Fast inspection speeds to maximise output
- ▶ Detect tiny leaks at high speed

### Benefits

-  **Faster**  
High-speed checks with market-leading technology, for efficient leak detection
-  **Flexible**  
Solutions available for every pack type, material and atmosphere, for bags and trays
-  **Efficient**  
Identify problems early to improve production line performance
-  **Safer**  
Reduce risks and deliver only quality product to retailers and their consumers







# Packaging

Maintain shelf life and pack integrity with our proven packaging solutions, catering for a diverse range of formats including trays, bags and crates. Delivering maximum flexibility and scalability.



## Tray Sealing for MAP Applications

The QX Flex range of tray sealers is designed for maximum flexibility. The range consists of three base machines to choose from, depending on your product size, sector and type of tray. We also offer tray handling systems and equipment to make the tray sealing process even more efficient.

- ▶ High throughput speeds for optimal operational efficiency
- ▶ Designed for quick process and tool changeovers
- ▶ Fully compatible with industry - standard and sustainable packaging types

## Benefits

-  **High Performance**  
Fast throughput, delivering high quality seal integrity and pack presentation
-  **Accurate**  
Consistent delivery of MAP packed products
-  **Simpler**  
User friendly operation and maintenance, thanks to robust design and intuitive controls
-  **Efficient**  
Minimise downtime with unique features and quick changeovers
-  **Greener**  
Delivers energy consumption savings





# Expertise you can trust

Our protein expertise is proven day in and day out, right across the world. Helping our customers increase output, reduce giveaway and meet growing consumer demand. But don't just take our word for it, see the results for yourself.



## Wipasz - Poland

We supported Polish poultry processor Wipasz to help transform its operations into one of Europe's most advanced facilities. As the company doubled its processing output to over 90,000 birds per day, the aim was to move to smaller, value-added, fixed weight MAP packs. Click on the QR code to read the full case study.

- ▶ New packing lines to meet growing customer demand for different products
- ▶ New weighing technology enabled fixed-weight packs to become a profitable reality
- ▶ New pack inspection and testing systems helped make Wipasz products welcome in the chiller cabinets of some of Europe's most prestigious supermarket chains

*"In our opinion, controlled product quality, modern technology and flexibility are the keys to success on the domestic and international markets. The Ishida technology acquired by Wipasz allows us to adjust our offer to specific customer requirements."*

Jacek Jelonek, Factory Manager.



## Maple Leaf Foods - Canada

We partnered with Maple Leaf Foods, one of Canada's leading prepared meat and poultry producers, to help establish its advanced C\$772 million poultry processing plant in London, Ontario. Handling and packing all the cut-up components from the 27,500 birds processed every hour, delivering around 270,000 retail trays each day across the 16 grading and packing lines. Click on the QR code to read the full case study.

- ▶ 12 Flex Graders and 4 IG-G2 Inspection Systems
- ▶ As a minimum, each production line can produce to tray pack, bulk pack (5kg or 20kg) or combo bulk (500kg) in unison.
- ▶ Ishida Flex Graders grade and pack whole legs at 120 pieces per minute, and thighs and drums at up to 400 pieces per minute.

*"With Ishida, we achieved one of the best collaborations I've experienced – a true partnership."*

Taimur Aslam, Project Director.



## Almarai - Saudi Arabia

We were proud to partner with Almarai, as the world's largest vertically integrated dairy company expanded into the poultry sector with its new 37,500 bird-per-hour plant. Built as a turnkey project Ishida's site is designed to keep pace both with growing demand and changing consumer preferences. Capable of handling 200 million birds per year, the facility is now one of the largest single output poultry plants in the world. Click on the QR code to read the full case study.

- ▶ Full turnkey support from design and installation to expert training
- ▶ End-to-end solutions including re-hanging and cutup systems, deboning machinery, multihead weighers, checkweighers, tray sealers and batching and grading systems as well as X-ray inspection systems and metal detectors
- ▶ Supported by scanners, strapping and trussing machines and glazing equipment and also the many associated infeed systems

*"Ishida's robust systems allow us to meet growing consumer demand far into the future."*

Larus Asgeirsson, General Manager.





# Sentinel 5.0

Want to unlock greater efficiency? Reduce downtime? Get digital proof of compliance? Continually improving processes. And connect your whole food processing line through one integrated dashboard?

## Joined-up-thinking is smarter thinking

Sentinel 5.0 represents the next generation of advanced production monitoring systems. Seamlessly combining cutting-edge data analytics, artificial intelligence, and forward-thinking innovation, Sentinel 5.0 builds on the proven success of previous Sentinel systems to unleash the power of joined-up-thinking.

Specifically designed to empower food manufacturers, Sentinel 5.0 helps streamline operations, reduce costs, and maximise your protein production efficiency like never before. Whether you choose Sentinel Local or Sentinel Cloud, you'll benefit from a tailored solution that fits your business needs perfectly.

### Your data. Your choice

Choose which solution works best for you.









#### Sentinel 5.0 Local

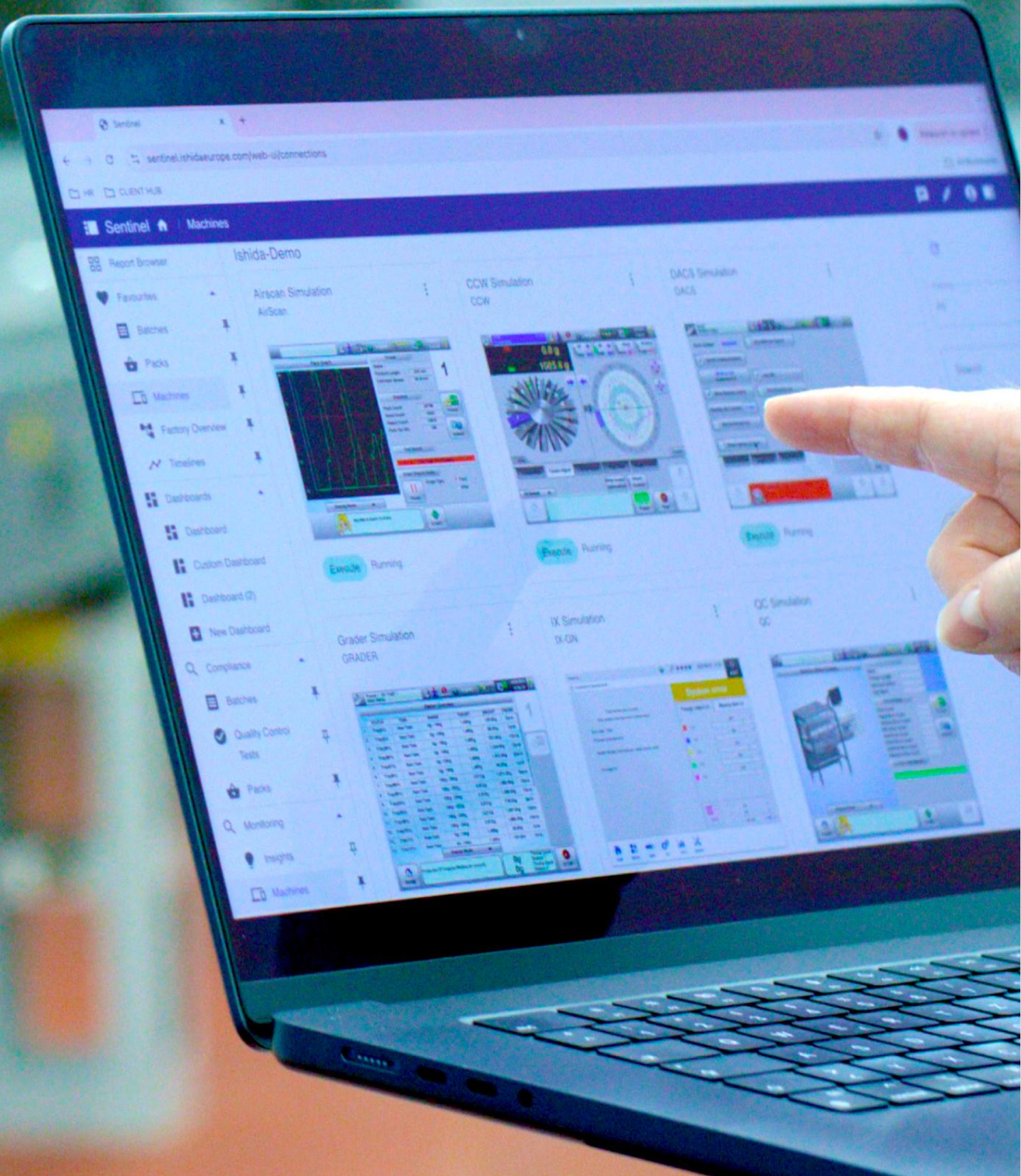
Keeps your data securely stored on-site.

#### Sentinel 5.0 Cloud

Utilises Ishida's reliable cloud services for seamless data storage and access.

## Benefits

-  **Paperless e-marking proof of compliance and HACCP management**  
To reduce downtime and manual intervention.
-  **24/7 monitoring and proactive maintenance**  
For faster servicing and reduced downtime.
-  **Remote production monitoring**  
For increased throughput and greater efficiency.
-  **Whole line intelligence**  
For improved product safety and inter-machine optimisation.
-  **Industry 5.0 technology and adaptive AI**  
For clear data-driven decision making.
-  **Third-Party Connector**  
For integrating other equipment seamlessly.
-  **Customised dashboard dashboard**  
For simple, user-friendly operation.
-  **Modular design**  
Allows tailoring to a customers specific needs.





# 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.



helpline • spares • service • training

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