

INSPIRA

Inspired engineering,
inspired by you





Snack Food Bagmaker

INSPIRA series

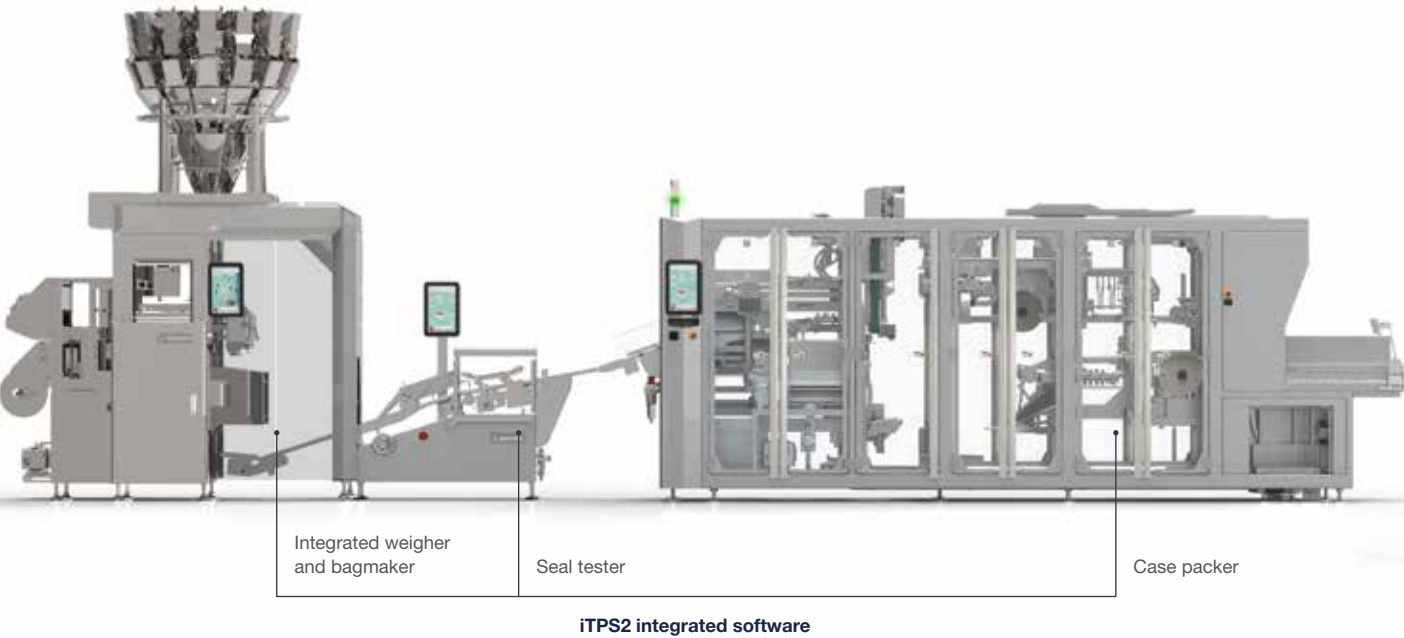
Ishida has unrivalled bagmaking experience in the snack foods sector developing sealing technology with rotary, intermittent and box-motion jaws.

In our quest to innovate and provide better solutions for food manufacturers, Ishida created the INSPIRA bagmaker, to offer industry-leading results for almost every possible type of pack format and film material.

Single source manufacturer

We are the only single source manufacturer for complete line snacks solutions. Customer benefits of this include simplified operator training, single point of contact for installation and aftersales, and fully developed integrated software capabilities.

- ▲ Multihead weighers
- ▲ Bagmakers
- ▲ Seal testers
- ▲ Checkweighers
- ▲ X-Ray inspection systems
- ▲ Automated case packers



Continuous improvement, based on listening to customers

At Ishida we make a lifelong commitment to our customers. Closely monitoring the performance of our ground-breaking products in demanding market and factory conditions around the world, and offering appropriate support when necessary. Careful observations, listening to our customers and examining performance data helps to fuel the creativity of our development teams to improve our solutions.

Snack food technology is driven by the need for the highest product quality possible at increasing productivity levels. This in turn drives us, to create solutions for food manufacturers that deliver consistent high-speed performance, and is what has led to the development of our next-generation bagmaker, the INSPIRA.

Smart factory capabilities

Our Sentinel system generates higher production efficiency and a reduction in operator time required when solving problems. We achieve this through real time machine learning that provides instant actionable information and direct communication with Ishida engineers during production when required. Automatic data reporting for all key performance indicators can be from anywhere at any time.



Complete remote connectivity



Easy accessibility and maintenance

Speed and flexibility

The range of INSPIRA machines ensure that there is a solution to match your needs whether you require speed, flexibility or a combination of the two. This is enabled due to the range of jaw motion configurations that the INSPIRA has to offer, achieving speeds of up to 250 packets per minute and the ability to produce most pack formats.

Simplified operation

The chassis on which the INSPIRA is built is a new, open structure which allows easier access to critical parts of the bagmaker for maintenance and cleaning purposes, which in turn reduces down-time. The machine structure has been redesigned to make operations simpler and to enhance operator productivity.

- ▲ Easier forming tube loading and unloading
- ▲ Splice table light-bar allowing for better visibility during film splicing
- ▲ Simpler film loading due to re-designed reel holder
- ▲ Reduced rollers allowing for simpler and faster film change
- ▲ Improved visibility using Perspex guarding
- ▲ New user interface with intuitive layout

Value added automation

A new level of automation ensures consistency in production and helps to reduce human error.

- ▲ Product-in-seal detection located at the jaws
- ▲ Automated centering and film tension adjustment
- ▲ Auto-splice film management *Option
- ▲ Automated air-fill technology *Option
- ▲ Automatic positioning of the former-rollers *Option
- ▲ Automated positioning of registration mark sensor *Option
- ▲ Automated printer positioning *Option
- ▲ Pack print verification *Option

Environmental-friendliness

Thanks to new and improved belt materials, the vacuum power needed for film control has been reduced by 25%. By comparison with earlier models, power consumption has been reduced by 24.8% in standby mode and by 16.8% during operation. This has been accompanied by a noise reduction of 20.7db during production. By shortening the path of the film from printer to jaw, the new design helps to reduce film waste.

INSPIRA bagmaker range

INSPIRA, as the next-generation range of VFFS bagmakers, is available with both types of sealing technology.



INSPIRA Features



Automatic Air Fill

Instead of relying on manual labour, the solution uses pneumatically-controlled deflator plates, to manage air fill and adjust pack thickness automatically. In automated air-fill technology, INSPIRA adjusts the air fill automatically for optimum case packing based on the feedback result from the TSC seal tester which monitors the bag air fill. (This function is optional.)



Autosplice

Autosplice is an optional feature that automatically heat-seals separate film reels together to deliver continuous production. The Autosplice allows for safer and quicker film reel replacement, minimising downtime and reducing errors caused by operator set up.



Automatic Print Position Adjustment

The INSPIRA can be upgraded to an automatic system that will remember the correct and precise print position and automatically adjust on each preset change. This avoids printing errors and potential customer complaints to your retailers and reduces changeover time. The system works in conjunction with an automated print roller, using a stepper motor to drive the printer into its correct position.



Automatic Film Alignment

The INSPIRA can be upgraded to include an automatic function to correct any misalignment before the film reaches the former. By adding film-edge tracking sensors, which continually monitor the edge of the film, you can ensure all film is properly centred for bagmaking without manual adjustment and reduces potential for poor quality packaging and downtime due to line stoppages.



Automatic Registration Mark Adjustment

The INSPIRA is configurable with a stepper motor to automatically move the reg mark sensor into the correct position, as defined by each pack preset. This enhancement overcomes potential human error, resulting in reduced film waste and unplanned downtime.



Automatic Former Roller Adjustment

Another automation option available on the INSPIRA is that the former roller positioning can be automatically achieved using a stepper motor to drive the former roller into the correct position for perfect film tension over the former. This feature is linked to the preset to eliminate operator errors, so you can avoid incorrect tension that can cause creases, pleats, tucks and open back seals affecting the customer overall pack quality.

Multiple Bag Types and Sealing Options

Most snack food processors produce a variety of snacks. Choosing packaging equipment that can cater for a range of shapes, sizes, seasoning, and densities is best practice. The INSPIRA snack bagmaker provides this versatility and is designed to form flat (pillow), flat with punch hole, block bottom, side gusset and chain packs.

Bag types



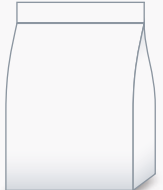
Flat bag



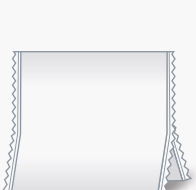
Flat bag with punch-hole



Gusset bag



Block-bottom bag

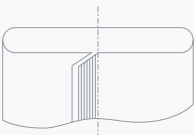


VSU bag

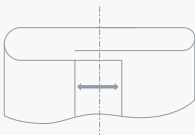


Chain bags

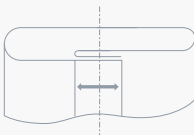
Sealing options



Pinch sealing



Lap sealing



Fin sealing



Rotary-motion

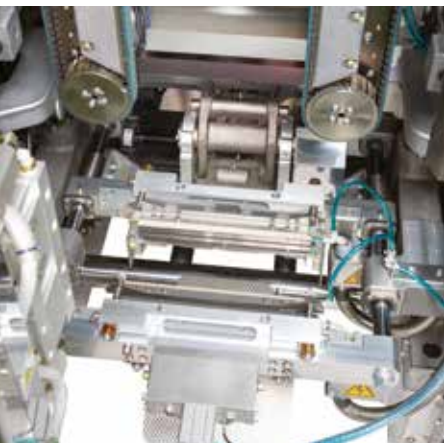
The rotary-motion bagmaker delivers mechanical speeds of up to 250 bags/min, the maximum achievable within a snack food environment whilst maintaining high quality pack output.



Intermittent-motion

The intermittent-motion machine offers a consistent, market-leading performance for this mode of forming/sealing of up to 120 bags/min with the addition of latest pack formats too.

During the sealing process, the seal jaw pushes the bag up to widen the available space and allows the product to settle into the bottom of the bag easily. (Blousing is optional)



Box-motion

Box-motion technology enables the sealing jaw motion to operate in both vertical and in/out horizontal planes delivering speeds of up to 160 bags/min. As well as ensuring a more consistent and reliable seal, box motion technology can handle all the latest pack formats.

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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