

Bagmaker

INSPIRA



Measure

Wrap

Inspect

Indicate

Pack

INSPIRA series

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

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

Continuous improvement, based on listening to customers

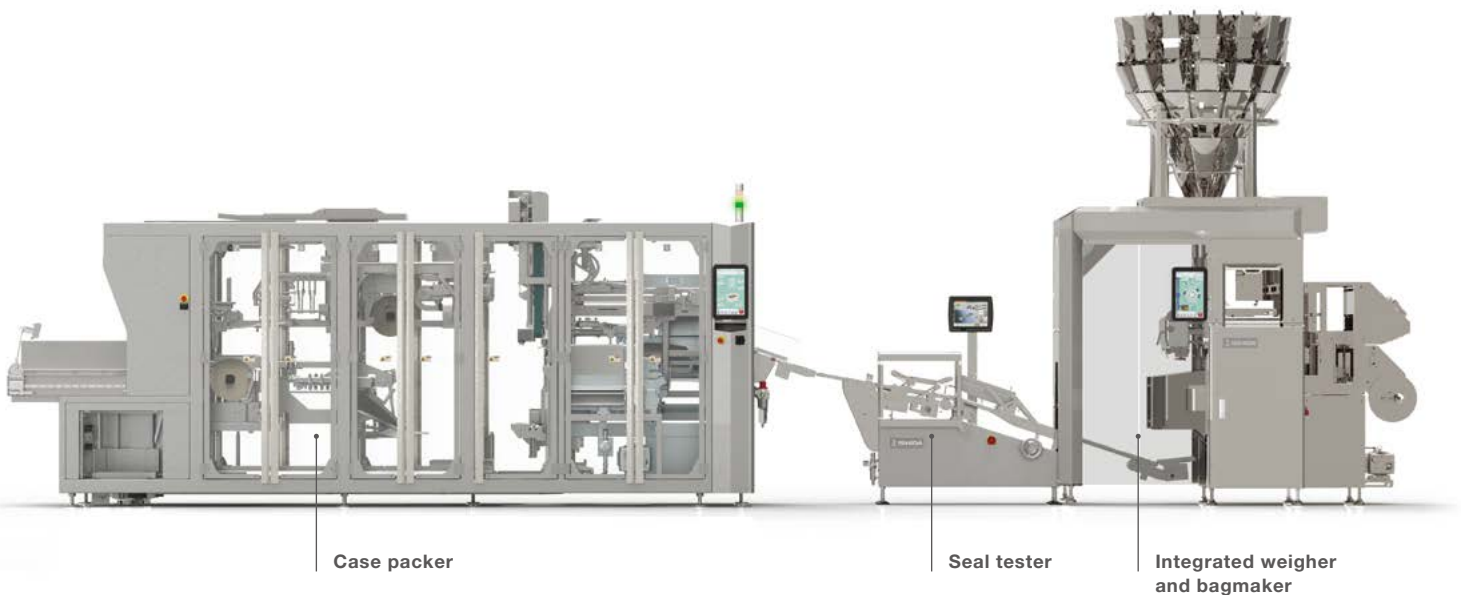
Ishida makes a life-long commitment to customers, closely monitoring the performance of their ground-breaking products in demanding market and factory conditions around the world, and offering appropriate support. Careful observations, listening to our customers and examining performance data helps to 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 bag maker, the INSPIRA.

Single source supplier

Unrivalled knowledge of high performance snacks solution from a single source supplier, allowing customers to create a complete, integrated packing line including:

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





Easy maintenance



15.6" HMI
Accessibility



Splice table with LED light



Film spindle w/o pinch point

Stable operation

The chassis on which the INSPIRA is built is a new, open structure which allows better access to critical parts of the bagmaker for maintenance and cleaning purposes, which in turn reduces down-time.

- Smooth surface of the pull down belts increases the vacuum strength to the film, maintaining stable film feed
- Large size bags are easily produced with the increased seal jaw opening

Accessibility

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

Automatic adjustment

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

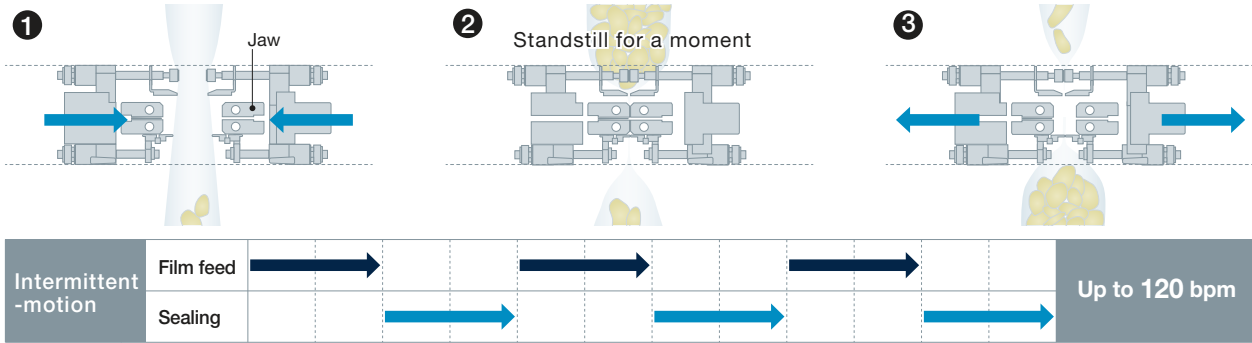
- Automated centering and tension adjustment of the film
- Auto-splice film management *Option
- Product-in-seal detection located at the jaws
- Pack print verification *Option
- Automatic optimisation of nitrogen flow
- Automatic positioning of the former roller *Option
- Automated air-fill technology *Option

Box-motion machine offers high performance of up to 160 bpm

| Film feed & sealing

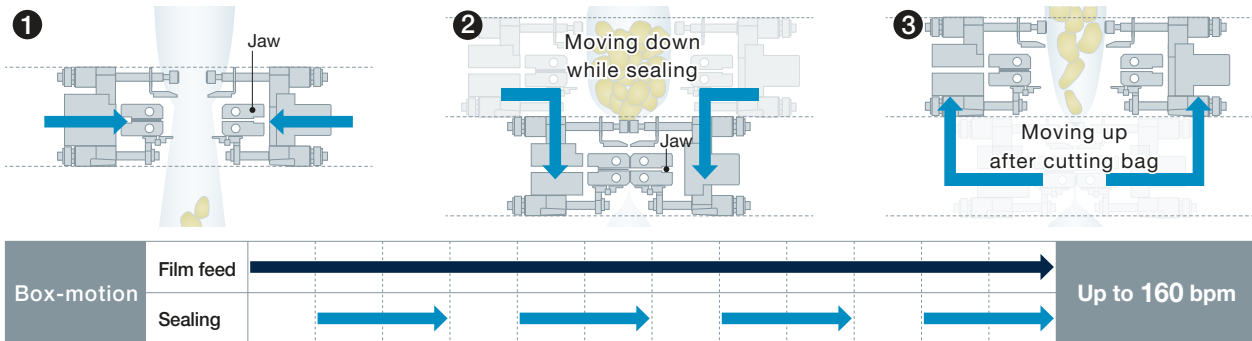
Intermittent-motion (Available with both intermittent-motion machine and box-motion machine)

- Good for Midium/High Speed
- Good for thick film
- Good for making multiple shape bags
- Good for chain bag



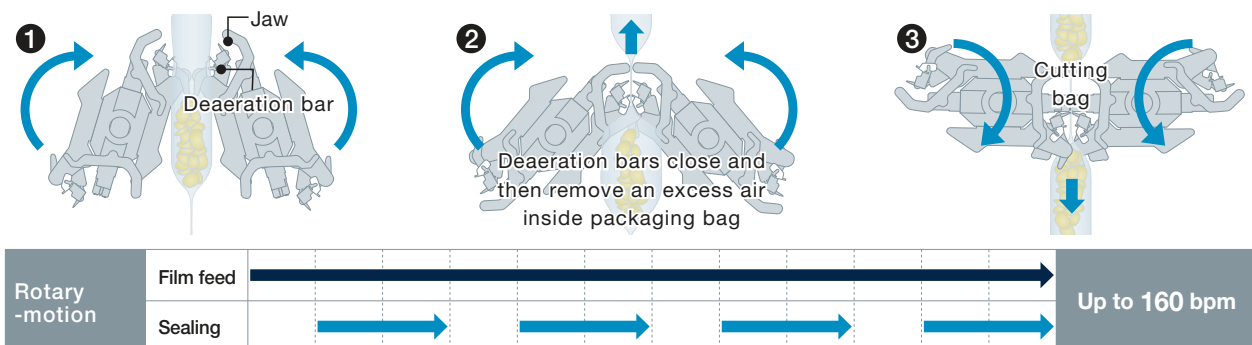
Box-motion machine (Available with box-motion machine only)

- Good for High Speed
- Good for thick film
- Good for making multiple shape bags
- Good for high speed pinch seal bag
- Good for chain bag



Rotary-motion machine (Available with rotary-motion machine only)

- Good for Ultra High Speed (Double Jaw)
- Good for Midium/High Speed (Single Jaw)
- Good for thin sealant file
- Good for stopping the end seal leakage by hot knife and high seal pressure



| Support for the stable production *Options below are available with box-motion machine only

Automatic Bag Thickness Adjustment

After packaging, TSC (Seal Checker) inspects each bag thickness and sends the inspection result to bagmaker. Based on the inspection result, bagmaker automatically adjusts bag thickness in real time. Equalizing each bag thickness results in decreasing defects of putting products into carton box.

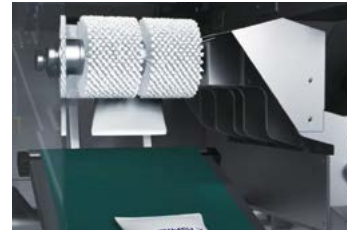
Stabilizer (Postural maintenance device for bag)

It minimizes variations in posture of bag soon after being cut off. This allows products to be transported at a certain interval, resulting in decreasing the rate of defects of downstream operations and contributing to improved production.

Automatic Bag Thickness Adjustment



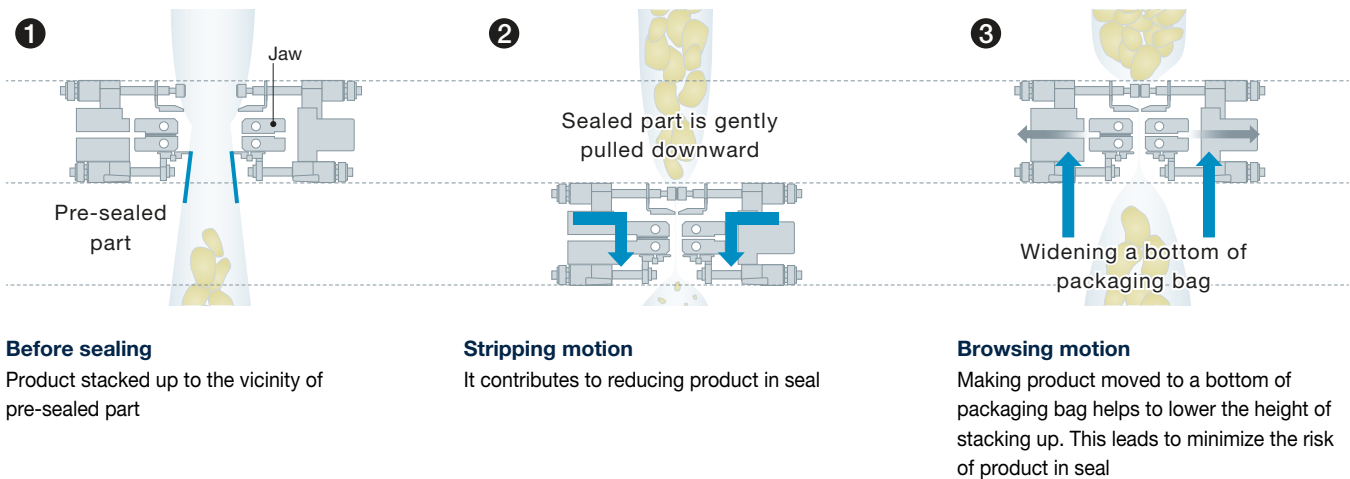
Stabilizer (Postural maintenance device for bag)



High-quality bag-making boosts your reputation further

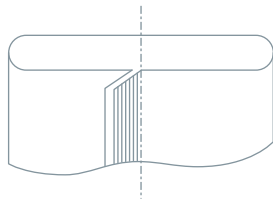
| Helping to decrease product in seal Option

INSPIRA has a browsing motion in addition to a conventional stripping motion. It decreases product in seal and contributes to an improved sealing quality.

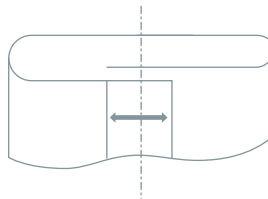


Multiple choices enable you to make your production line efficient

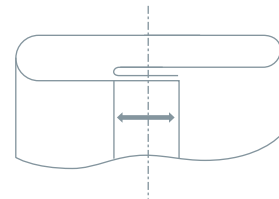
| Choices on vertical sealing



Pinch sealing



Wrap sealing



Fin sealing

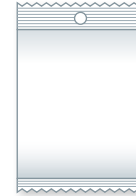
| Multiple packaging methods are available

Providing an optimal finish of packaging bag for user besides an excellent production capacity

We offer solutions for the needs of a diversifying type of packaging. Modified atmosphere packaging (MAP) and paper packaging are also available with INSPIRA. We provide an ideal finish of packaging to various requests from users.



Flat bag



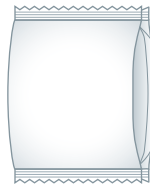
Flat bag with punch-hole



Chain bags

VSU

It consists of gusset on only one side and is capable of standing on its own



Gusset bag



Block-bottom bag

| Enhanced management functions support user

User login function through a personal authentication allows you to allocate a permission to access according to each operator's level and customize operation screen.

Log data can be traced according to each operator.

Personal authentication

Configurable setting according to each user

Customizable operation screen

Log data (error, message, operation)

Environmental friendliness

As a result of pursuing a friendliness to the environment and people, we achieved an energy saving and alleviating noise levels during operation.

16.8%

Less power used during operation

24.8%

Less power used on standby

20.7db

Reduction in noise levels

*Based on internal test results

High-speed control and making a vacuum pump small contributes to an energy saving and an improved quiet performance

| Paper packaging is available

We offer a solution for paper packaging to solve an issue of growing plastic waste worldwide.

Gently packaging while keeping the shape of packaging bag

By mounting shutter inside packaging bag, it alleviates an impact of falling product. This results in reducing film waste caused by a ripped film.

Auto Splicer

Significantly reduce a down time of film change by film pattern alignment function and film positioning mechanism. Thanks to automatic adjustment by machine, this is a user-friendly and eco-friendly option that helps prevent human error and reduce film loss.



Productivity

- ▲ Enhances production efficiency by reducing splicing time 85%.
- ▲ No film waiting time when film ends, and only takes 20 sec for film splicing.
- ▲ More production is capable by reducing film waiting time.

Stability

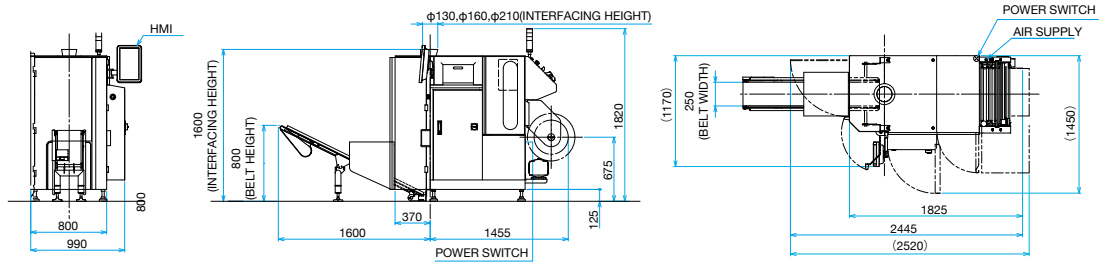
- ▲ Reduce film loss by reading both Feeding film and Set film registration mark, and splicing just on each registration marks.
- ▲ Prevent human errors by automatically changing tracking position per preset or SKU and prevents unnecessary film waste.

User Friendly

- ▲ Operators only needs to set film, and splice (film changeover) is automatically done by machine.
- ▲ Film set position is always on Film Set Side. Once film comes to end, film on Film Set Side will rotate to Film Feed side.

Technical specification

Dimensions (Unit: mm)



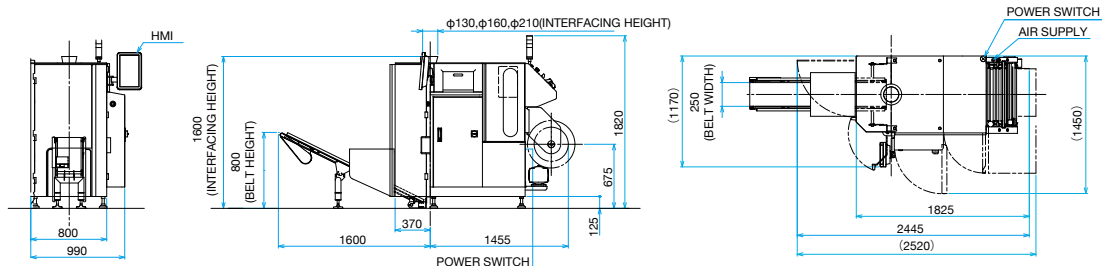
Specifications

		INSPIRA-B-NS25-PH30-SNR(L)-***
Performance		
Packaging Speed		10-120bpm ¹
Bag Size	Width	70-250mm 50-250 mm (in the case of option compatible with small bag) ²
	Length	50-300mm
Rate of Defect		Less than 1% (This can be varied with a type of product and other conditions)
Film Web Size (Max)		Diameter:500mm Internal diameter:75mm Width:530mm Less than 50kg and 1.3kg•m ²
Main Body	Material	Stainless Steel
	Dimension	Length:1825mm Width:(800+190)mm Interlocking Height:1600mm
	Weight	750kg
HMI		15.6" Color LCD touch panel
Electric Component		Built into machine body
Ingress Protection		IP-50 ³
Specifications of Main Mechanical Part	Horizontal Sealing	Flat single jaw (Intermittent motion), knife
	Vertical Sealing	Pinch sealing
	Film Roll	Single spindle
Specification		
Power Supply		3-phase AC200V 4.7kW 15A 50/60Hz (Voltage fluctuation : within ±10%)
Operating Environment		0-40°C (30-70%RH:without dew condensation)
Air Consumption		0.5-1MPa (5-10kgf/cm ²) Less than 120NL/min
Noise Level		Less than 75 dB with dry run (120 bpm)

*1) Packaging speed can be varied with product shape, packaging material and other conditions. *2) In case that bag width is 50-69mm, mounting a collar spacer is required.

*3) Based on internal test results

Dimensions (Unit: mm)



Specifications

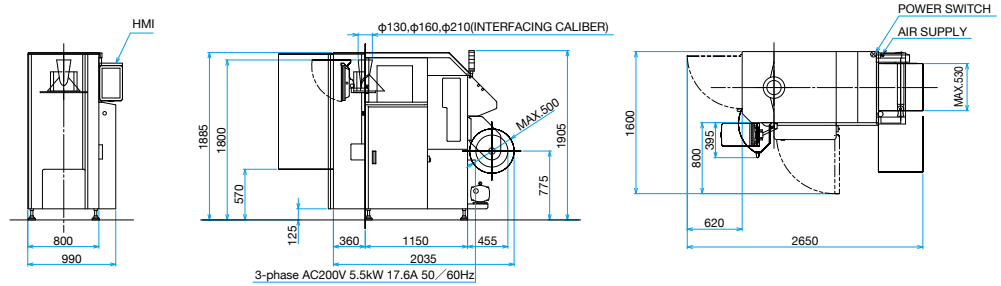
		INSPIRA-B-CS25-PH30-SNR(L)-***	INSPIRA-B-CS25-SB20-SNR(L)-***
Performance			
Packaging Speed		10-160 bpm ¹	
Bag Size	Width	70-250mm 50-250mm (in the case of option compatible with small bag) ²	
	Length	50-300mm ³	75-533mm ⁴
Rate of Defect		Less than 1% (This can be varied with a type of product and other conditions)	
Film Web Size (Max)		Diameter:500mm Internal diameter:75mm Width:530mm Less than 50kg and 1.3kg•m ²	
Main Body	Material	Stainless Steel	
	Dimension	Length:1825mm Width:990mm Interlocking Height:1600mm	
	Weight	900kg	
HMI		15.6" Color LCD touch panel	
Electric Component		Built into machine body	
Ingress Protection		IP-50 ⁵ (This rating is applied to only electric component box)	
Specifications of Main Mechanical Part	Horizontal Sealing	Flat single jaw, knife	
	Vertical Sealing	Pinch sealing	Steel belt sealing
	Film Roll	Single spindle	
Specification			
Power Supply		3-phase AC200V 5.5kW 17.6A 50/60Hz (Voltage fluctuation : within ±10%) In the case of built-in transformer (Option), 3-phase AC220V-480V is available	
Operating Environment	Temperature	0-40°C	
	Humidity	30-70%RH (without dew condensation)	
Air Consumption		0.5-1MPa (5-10kgf/cm ²) Less than 200NL/min	
Noise Level		Less than 80dB with dry run (160bpm)	

*1) Packaging speed can be varied with product shape, packaging material and other conditions. *2) In case that bag width is 50-69mm, mounting a collar spacer is required.

*3) In case that bag length is more than 300mm, raising machine body is required and packaging speed will decline. *4) In case that bag length is more than 300mm, raising machine body is required.

*5) Based on internal test results

Dimensions (Unit: mm)



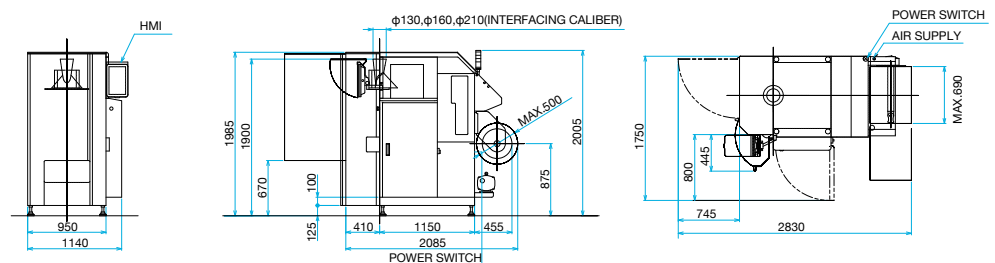
Specifications

		INSPIRA-B-CS25-PH30-LNR(L)-***	INSPIRA-B-CS25-SB20-LNR(L)-***
Performance			
Packaging Speed		10-160 bpm ^{*1}	
Bag Size	Width	70-250mm 50-250mm (in the case of option compatible with small bag) ^{*2}	
	Length	50-300mm ^{*3}	75-533mm
Rate of Defect		Less than 1% (This can be varied with a type of product and other conditions)	
Film Web Size (Max)		Diameter:500mm Internal diameter:75mm Width:530mm Less than 50kg and 1.3kg•m ²	
Main Body	Material	Stainless Steel	
	Dimension	Length:1975mm Width:990mm Interlocking Height:1800mm	
	Weight	1000kg	
HMI		15.6" Color LCD Display	
Electric Component		Built into machine body	
Ingress Protection		IP-50 ^{*4} (This rating is applied to only electric component box)	
Specifications of Main Mechanical Part	Horizontal Sealing	Flat single jaw, knife	
	Vertical Sealing	Pinch sealing	Steel belt sealing
	Film Roll	Single spindle	
Specification			
Power Supply		3-phase AC200V 5.5kW 17.6A 50/60Hz (Voltage fluctuation : within ±10%) In the case of built-in transformer (Option), 3-phase AC220V-480V is available	
Operating Environment	Temperature	0-40°C	
	Humidity	30-70%RH (without dew condensation)	
Air Consumption		0.5-1MPa (5-10kgf/cm ²) Less than 200NL/min	
Noise Level		Less than 80dB with dry run (160bpm)	

*1) Packaging speed can be varied with product shape, packaging material and other conditions. *2) In case that bag width is 50-69mm, mounting a collar spacer is required.

*3) In case that bag length is more than 300mm, packaging speed will decline. *4) Based on internal test results

Dimensions (Unit: mm)



Specifications

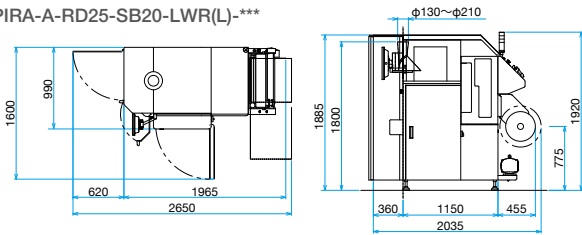
		INSPIRA-B-CS33-PH30-LWR(L)-***	INSPIRA-B-CS33-SB20-LWR(L)-***
Performance			
Packaging Speed		10-150 bpm ^{*1}	
Bag Size	Width	70-330mm 50-330mm (in the case of option compatible with small bag) ^{*2}	
	Length	50-300mm ^{*3}	75-711mm
Rate of Defect		Less than 1% (This can be varied with a type of product and other conditions)	
Film Web Size (Max)		Diameter:500mm Internal diameter:75mm Width:690mm Less than 50kg and 1.3kg•m ²	
Main Body	Material	Stainless Steel	
	Dimension	Length:2100mm Width:1150mm Interlocking Height:1900mm ^{*4}	
	Weight	1200kg	
HMI		15.6" Color LCD touch panel	
Electric Component		Built into machine body	
Ingress Protection		IP-50 ^{*5} (This rating is applied to only electric component box)	
Specifications of Main Mechanical Part	Horizontal Sealing	Flat single jaw, knife	
	Vertical Sealing	Pinch sealing	Steel belt sealing
	Film Roll	Single spindle	
Specification			
Power Supply		3-phase AC200V 5.8kW 18.6A 50/60Hz (Voltage fluctuation : within ±10%) In the case of built-in transformer (Option), 3-phase AC220V-480V is available	
Operating Environment	Temperature	0-40°C	
	Humidity	30-70%RH (without dew condensation)	
Air Consumption		0.5-1MPa (5-10kgf/cm ²) Less than 200NL/min	
Noise Level		Less than 80dB with dry run (150bpm)	

*1) Packaging speed can be varied with product shape, packaging material and other conditions. *2) In case that bag width is 50-69mm, mounting a collar spacer is required.

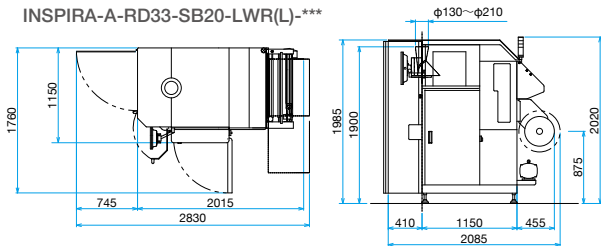
*3) In case that bag length is more than 300mm, packaging speed will decline. *4) In the case of option, 1800mm is available (with the restriction of bag length). *5) Based on internal test results

Dimensions (Unit: mm)

INSPIRA-A-RD25-SB20-LWR(L)-***



INSPIRA-A-RD33-SB20-LWR(L)-***



Specifications

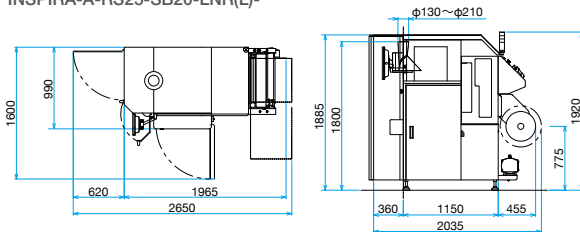
*Dimensions vary with the application

		INSPIRA-B-RD25-SB20-LWR(L)-***	INSPIRA-B-RD33-SB20-LWR(L)-***	
Performance				
Packaging Speed		Max. 250 bpm	Max. 200 bpm	
Bag Size	Width	70-250 mm	70-330 mm	
	Length	75-533 mm	75-711 mm	
Packing Material		OPP/CPP, OPP/PE. Aluminum-metalized PP, PET/PE, N/PE, etc.		
Film Web Size (Max)		W 530 mm x ϕ 500mm	W 690 mm x ϕ 500 mm	
Main Body	Width	1300kg	1450 kg	
	Materials	Stainless Steel		
Human Machine Interface		15.6" Color LCD Display		
Number of Presets		500		
Specification				
Utilities	Air Consumption	0.5-1 Mpa (5-10 kgf/cm ²) 60 NL/min		
	Power	Wattage	4.7kW	5.7kW
		Voltage	AC200-208 V/220 V, 230 V, 240 V/380 V, 400 V, 415 V/440 V, 460 V, 480 V (Built-in transformer will be needed for 220 V-480 V) 50/60 Hz 3 phases	
Operational Temperature		0-40 °C		
Noise Level		Less than 75 dB (180 bpm with dry run)		

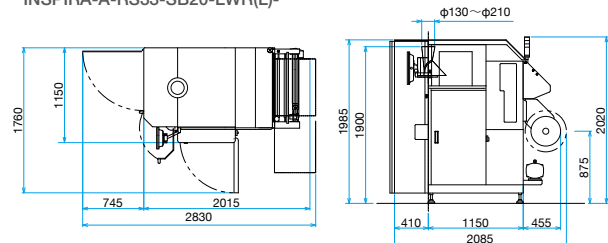
Maximum running speed is subject to change depending upon the product, product volume, packaging material and in-feed condition of the product.

Dimensions (Unit: mm)

INSPIRA-A-RS25-SB20-LNR(L)-***



INSPIRA-A-RS33-SB20-LWR(L)-***



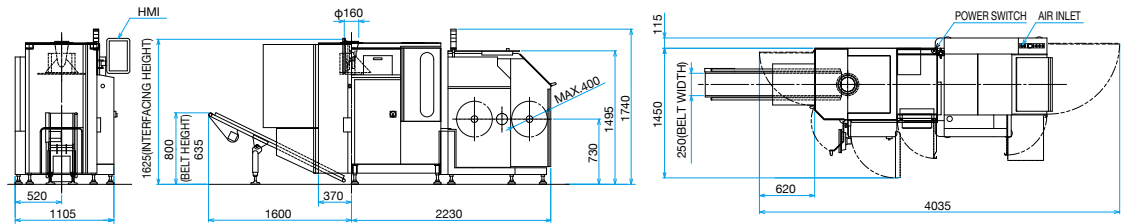
Specifications

*Dimensions vary with the application

		INSPIRA-B-RS25-SB20-LNR(L)-***	INSPIRA-B-RS33-SB20-LWR(L)-***	
Performance				
Packaging Speed		Max. 125 bpm	Max. 125 bpm	
Bag Size	Width	70-250 mm	70-330 mm	
	Length	75-533 mm	75-711 mm	
Packing Material		OPP/CPP, OPP/PE. Aluminum-metalized PP, PET/PE, N/PE, etc.		
Film Web Size (Max)		W 530 mm x ϕ 500mm	W 690 mm x ϕ 500 mm	
Main Body	Width	1300kg	1450 kg	
	Materials	Stainless Steel		
Human Machine Interface		15.6" Color LCD Display		
Number of Presets		500		
Specification				
Utilities	Air Consumption	0.5-1 Mpa (5-10 kgf/cm ²) 60 NL/min		
	Power	Wattage	4.7kW	5.7kW
		Voltage	AC200-208 V/220 V, 230 V, 240 V/380 V, 400 V, 415 V/440 V, 460 V, 480 V (Built-in transformer will be needed for 220 V-480 V) 50/60 Hz 3 phases	
Operational Temperature		0-40 °C		
Noise Level		Less than 75 dB (180 bpm with dry run)		

Maximum running speed is subject to change depending upon the product, product volume, packaging material and in-feed condition of the product.

Dimensions (Unit: mm)

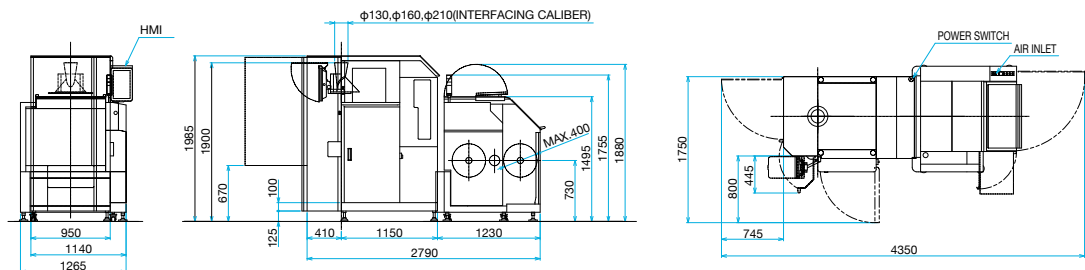


Specifications

		INSPIRA-ASP-NR(L)-***
Performance		
Packaging Speed	In accordance with bagmaker	
Bag Size	Width:50-250mm ¹ Length:In accordance with bagmaker	
Pitch when Interlocking by Twin Bagmakers ² (Former Center Pitch)	1080mm	
Film Web Size (Max)	Diameter:400mm Internal diameter:75mm Width:530mm Less than 50kg and 1.0kg•m ²	
Available Film	Edge of film has to be secured to paper core ³ (Film does not peel off from paper core when pulled by the force of 50N) Registration marks have to be on the film ⁴	
Main Body	Material	Stainless steel
	Dimension/Weight	Dimension:Length 1950mm x Width 1105mm x Height 1500mm Weight:Approx. 550kg
HMI	Operable from INSPIRA	
Electric Component	Built into machine body	
Ingress Protection	IP-30 ⁵ (This rating is applied to only electric component box)	
Specifications of Main Mechanical Part	Film splicing method:Heat sealing Registration marks:Mark alignment mechanism Tracking:Power tracking is available Paper core supporting method:Air chuck Discharge method of splicing part:Discharged by chain bags	
Operation Method	In accordance with bagmaker(The machine stops temporarily when splicing:Less then 20 seconds) ⁶	
Splicing Accuracy	Film flow direction:Less than ±1mm, Width direction:Less than ±2mm ⁷	
Specification		
Power Supply	3-phase AC200V 2.48kW 8.0A 50/60Hz ⁸ (Voltage fluctuation:within ±10%)	
Operating Environment	0-40°C (30-70%RH:without dew condensation)	
Air Consumption	0.5MPa (5kgf/cm ²) Less than 20NL (When splicing)	

*1) In the case that bag width is 50-69mm, bagmaker has to have option compatible with small bag. *2) Other than 1080mm is not available. *3) Film being not secured to paper core is available with option.
*4) Film without registration marks is available with option. *5) Based on internal test results. *6) It can vary with film conditions. *7) It can vary with operators. *8) Maximum power consumption when splicing.

Dimensions (Unit: mm)



Specifications

		INSPIRA-ASP-WR(L)-***
Performance		
Packaging Speed	In accordance with bagmaker	
Bag Size	Width:50-330mm ¹ Length:In accordance with bagmaker	
Pitch when Interlocking by Twin Bagmakers ² (Former Center Pitch)	1240mm	
Film Web Size (Max)	Diameter:400mm Internal diameter:75mm Width:690mm Less than 50kg and 1.0kg•m ²	
Available Film	Edge of film has to be secured to paper core ³ (Film does not peel off from paper core when pulled by the force of 50N) Registration marks have to be on the film ⁴	
Main Body	Material	Stainless steel
	Dimension/Weight	Dimension:Length 1950mm x Width 1265mm x Height 1500mm Weight:Approx. 650kg
HMI	Operable from INSPIRA	
Electric Component	Built into machine body	
Ingress Protection	IP-30 ⁵ (This rating is applied to only electric component box)	
Specifications of Main Mechanical Part	Film splicing method:Heat sealing Registration marks:Mark alignment mechanism Tracking:Power tracking is available Paper core supporting method:Air chuck Discharge method of splicing part:Discharged by chain bags	
Operation Method	In accordance with bagmaker(The machine stops temporarily when splicing:Less then 20 seconds) ⁶	
Splicing Accuracy	Film flow direction:Less than ±1mm, Width direction:Less than ±2mm ⁷	
Specification		
Power Supply	3-phase AC200V 2.78kW 8.9A 50/60Hz ⁸ (Voltage fluctuation:within ±10%)	
Operating Environment	0-40°C (30-70%RH:without dew condensation)	
Air Consumption	0.5MPa (5kgf/cm ²) Less than 20NL (When splicing)	

*1) In the case that bag width is 50-69mm, bagmaker has to have option compatible with small bag. *2) Other than 1240mm is not available. *3) Film being not secured to paper core is available with option.
*4) Film without registration marks is available with option. *5) Based on internal test results. *6) It can vary with film conditions. *7) It can vary with operators. *8) Maximum power consumption when splicing.

The new INSPIRA bagmaker range offers you:

- Higher productivity across all sealing motions
- Improved sealing jaw positioning thanks to the latest motor and drive technology
- Wider choice of bag sizes: minimum pack width 50mm
- Improved user-friendly human-machine interface
- Increased environmental friendliness, with less noise, energy usage and film waste
- New corrosion-resistant body structure

Some of the many bagmaker improvements, inspired by customer feedback, are embodied in the INSPIRA bagmaker range.

INSPIRA rotary motion model

250bpm

Top industry performance

INSPIRA intermittent motion model

20.7db

Reduce in noise levels

16.8%

Less power used during operation

24.8%

Less power used on standby

304

Corrosion resistant stainless steel body

25%

Reduction in vacuum needed to hold film

500

Presets available for fast changeovers

50mm

New minimum bag width

50kg

New maximum film reel weight

15.6"

New, intuitive machine interface

4

Fewer film path rollers, for easier feed

1

Single source for entire packing system

Environmental friendliness

Thanks to new and improved belt materials, the vacuum power needed for film control has been reduced by 25%. As a result, by comparison with earlier models, power consumption has been reduced by 24.8% in standby mode and by 16.8% during operation (these figures apply to the Intermittent motion version). 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.

The information in this catalogue is current as of 30 May 2022.
The company name and product name described in this catalog are registered trademarks.
The machine color in this catalog might be different from the real machine.



ISHIDA CO., LTD. www.ishida.com

44 Shogoin Sannocho, Sakyo-ku,
Kyoto, 606-8392, Japan
Tel: +81 (0)75 751 1618 Fax: +81 (0)75 751 1634