

The supreme discipline

Automatic film sealing machines

The automatic film-sealing machines fulfil the most diverse performance requirements.

The bottom seam automatic bag machines manufacture large item numbers of bags in many lengths and widths. They can process both flat films and side fold films. The machines are equipped with a programmable controller. All parameters can be adjusted while the machine is running. In spite of high tech, they are easy to operate. The expenditure in terms of maintenance is astonishingly low.

In addition to the large automatic machines, we have designed the small Bag Boy and included it as a new feature in our range. The Bag Boy manufactures bags in item numbers both large and small; its flexibility and user-friendliness in addition to its price/performance ratio make it particularly attractive.

We also manufacture other automatic machines, e.g. the FSA, which manufactures film gloves directly on paper base.

Automatic film sealing machines

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Automatic bottom-seam bag machine BNB 850 • BNB 850 PA/PE

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Automatic bottom-seam bag machine Bag Boy 600

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Automatic film sealing machine to manufacture PE gloves directly on a paper base

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Automatic bottom-seam bag machine

BNB 800 • BNB 800 PA/PE



Product information

The BNB 800 and BNB 800 PA/PE bottom seam bag machines are characterised by their ease of use. Essential parameters such as the bag length, items per minute, seam offset and number of items can be adjusted using a touchscreen even when the machine is running. With the BNB 800, bag lengths of 200 to 1500 mm can be produced with a maximum throughput speed of 60 m/min. The maximum attainable number of items per minute depends on the material and is limited to 150 items/min. The BNB 850 PA/PE is specially designed for sealing film sleeves made of PA/PE, PE/PA/PE and other composite materials. The bag seam width is approx. 4 mm. Bag lengths of up to 1200 mm are possible. The number of items per minute is even more heavily dependent on the material in this case and may for example be around 2 x 200 μ at 80 items/min.

The BNB 800 series of automatic machines can process side fold film in addition to conventional flat film. Material thicknesses of 2 x 10 μ to 200 μ (standard) and 2 x 40 μ to 200 μ (PA/PE) can be sealed. Transverse cutting of the widths of film is performed by a perforating blade in the BNB 800 and with a shearing blade in the BNB 800 PA/PE. The automatic machines are governed by a programmable controller. Two servomotors ensure synchronous drive of two forward feed rollers.

A temperature-controlled sealing device and water cooling guarantee constantly identical sealing conditions and therefore optimum and consistent sealing quality.



Unwinding station

The unwinding motors are controlled by dancer systems, thereby guaranteeing uniform film tension.



Control console

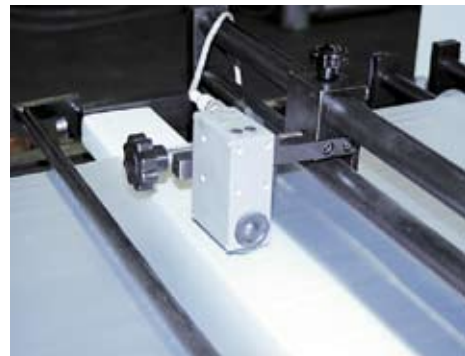
Alle machine parameters can be easily adjusted by simply touching the display. Clear arrangement of the controls makes work easier.

Technical data	BNB 800	BNB 800 PA/PE
Order no.	2 013 835	2 014 375
Film run speed	max. 60 items/min	depends on material used
Item throughput rate	max. 150 items/min	depends on material used
Working width	max. 810 mm	max. 810 mm
Bag length	from 200 to 1.500 mm, cont. digitally adjustable	von 200 - 1.200 mm
Film thickness	2 x 10 µ (0,01 mm) bis 2 x 200 µ (0,20 mm)	2 x 40 µ (0,04 mm) bis 2 x 200 µ (0,20 mm)
Film material	LDPE, HDPE	PA/PE, PE/PA/PE and other composite materials
Film type	Flat and gusset films	Flat film sleeve
Film roll diameter	max. 800 mm	max. 1.000 mm
Sealing bar	Upper and lower bar continuously heated	Upper and lower bar continuously heated
Sealing width	Shrink seam	4 mm
Operating pressure	6 bar	6 bar
Air consumption	max. 350 l/min (at 150 items/min)	max. 550 l/min (at 150 items/min)
Dimensions (W x H x D)	7.500 x 1.700 x 1.700 mm	7.500 x 1.700 x 1.700 mm
Connected voltage	400 V, 50/60 Hz, L1/L2/L3/N/PE	400 V, 50/60 Hz, L1/L2/L3/N/PE
Fuse	32 A, slow-blow	32 A, slow-blow
Weight machine	2,200 kg	2,200 kg
Weight conveyor belt	250 kg	250 kg
Colour	ultramarine blue RAL 5002 / light grey RAL 7035	ultramarine blue RAL 5002 / light grey RAL 7035
Cutting device	Perforating blade + rack with needle stacking	Shearing blade + rack without needle stacking

Technical and design modifications reserved

The advantages at a glance

- simple operation
- adjustment of the parameters for forward feed, number of items per minute and seam offset by a touchscreen, even while the machine is running
- automatic film end cutoff
- electrical output for connection of additional device



Photoelectric cell

For printed film, the photoelectric cell control deals with precise positioning of the printed pattern in relation to the cut.

Application

- Production of bottom seam bags in large numbers of items

Conveyor belt

The bags are removed from the machine by hand. If required, the conveyor belt can be rolled away from the machine on rails.



Automatic bottom-seam bag machine

Bag Boy 600



Product information

The new Bag Boy 600 offers sophisticated technology at an extremely attractive price. This automatic bottom-seam bag machine was specifically developed for small manufacturing quantities with simultaneously simple operation. Bag sizes of max. 600 mm wide and lengths of 100 - 800 mm can be easily manufactured.

The material forward feed is performed by an servo-motor and cutting with a pneumatically operated shear blade. Welding of the bottom seam is performed by a pulse sealing process. In order to do this, the sealing strip travels downwards simultaneously with the cutting movement of the top blade. At the bottom position, sealing is performed against a silicon rubber coating located on the bottom blade. After cutting, the bags fall on to a storage table. The bags lie loose on top of one another and are not secured with needles. All important parameters such as forward feed length, number of pulses, number of stacking items and pulse time can be easily and rapidly adjusted on the display.

A photoelectric cell is also available as an option for processing printed films.

Applications

- Simple manufacture of bags in small numbers of items



Technical data	Bag Boy 600
Order no	2 016 601
Throughput	max. 32 m/min, depends on film
Nominal width	620 mm
Working width	600 mm
Bag length	Steppless adjustable from 100 to 800 mm. Length over 800 mm are possible, but without guarantee of bag storage
Film thickness	2 x 10 µ bis 2 x 100 µ
Film material	HDPE, LDPE
Film type	flat and side-fold films
Film roll diameter	max. 600 mm
Sealing bar	upper bar pulse heated against silicon rubber on the bottom blade
Sealing seam width	Shrunk seam
Operating pressure	6 bar
Air consumption	max. 250 litre with 80 cycles/min
Dimensions (W x H x D)	1.400 x 1.400 x 3.400 mm (incl. storage table)
Connected voltage	400 V, 50/60 Hz, L1/L2/L3/N/PE
Fuse	16 A, slow-blow
Machine Weight	550 kg
Colour	ultramarine blue RAL 5002 / light grey RAL 7035

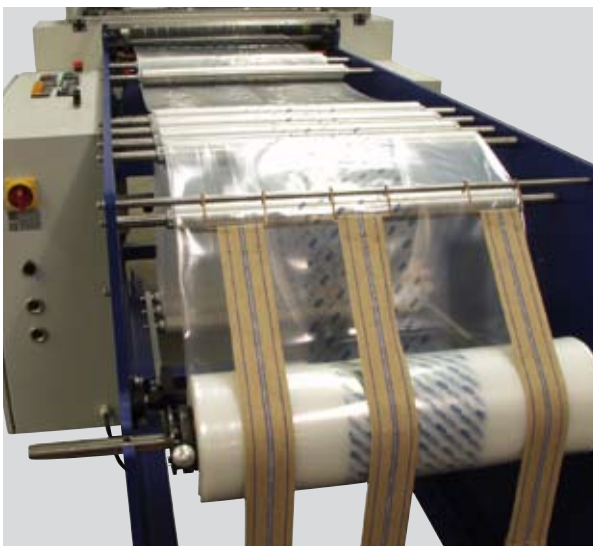
Technical and design modifications reserved

The advantages at a glance

- excellent price-performance ratio
- simple operation
- adjustment of the parameters for forward
- feed, number of pulses, pulse and number of items directly by pushbuttons on the display



Control panel



Film unwinding

Automatic film sealing machine to manufacture PE gloves directly on a paper base **FSA 504 (Motion Control)**



Product information

This automatic film-sealing machine is used exclusively for manufacturing two adjacent gloves on paper. For this purpose, the film webs are unwound together with the paper web and fed into the sealing station. Form sealing is performed for two pairs of gloves simultaneously in this sealing station. From here, the pairs of gloves are conveyed to the crossways cutter after prior removal of the waste film. The pairs of gloves are divided here and can be conveyed to an automatic folding machine.

By using Motion Control servomotors, the crossways cutter (120 items per minute) can be operated twice as rapidly as the sealing station (60 items per minute). Use of this technology reduces air consumption to a minimum.

The conventional application for gloves on paper is as a package insert for hair dyeing products for protection of the hands against discoloration

Applications

- Manufacture of PE gloves directly on a paper base



The illustration shows two gloves sealed next to each other on to printed paper. This sample has also been folded by an automatic folding machine after sealing and cutting. The finished product can therefore be directly added to the final package.

Technical data	FSA 504
Order no.	2 015 110
Number of cycles sealing device	max. 60 cycles/min
Number of cycles crossways cutter	max. 120 cycles/min
Useful working surface (W x L)	400 x 500 mm
Pneumatic tension heads for paper rolls	core inside diameter 76 mm
Pneumatic tension heads for film rolls	core inside diameter 70 mm
Paper roll	max. Ø 1200 mm, W=280 mm
Film roll	max. Ø 500 mm, W=315-350mm
Cut	shear cut
Driving systems	Motion Control Servomotors
Operating	Touchscreen Display
Connected voltage	400 V, 50/60 Hz, LI/L2/L3/N/PE
Fuse	32 A, slow-blow
Connected load	10 kvA
Colour	ultramarine blue RAL 5002 / light grey RAL 7035

Technical and design modifications reserved

The advantages at a glance

- very low air consumption
- touchscreen control
- high level of process safety by precise control of movement
- temperature control for each individual glove



Convenient

All sealing parameters are controlled and adjusted by a touchscreen

Production sequence

This is how the gloves are sealed onto the paper

The films are unwound together with the paper web and conveyed to the sealing station by a dancer roller system. Form sealing is performed in the sealing station, with the sealed gloves and the excess film left adhering to the paper. The attached excess film is automatically pulled off and is led away to the side. The sealed glove is left adhering to the paper. A photoelectric cell takes charge of precise positioning for the sealing and cut respectively.

Cross-cutting of the paper web is performed by a blade according to the guillotine principle. The machine is equipped with servo drives, which optimally allow controlled material forward feed in conjunction with variation possibilities and sealing and forward feed times. The sealed contour is conveyed to the folding machine combination via an intermediate transport device. The composition depends on the type and number of required foldings (optional, not an integral part of the machine).



- Crossways cutter
- Sealing device
- Photoelectric cell of sealing device
- Film unwinding station with dancer roller system and brake
- Paper unwinding frame with dancer roller and paper brake
- Removal of waste film
- Photoelectric cell of crossways cutter
- Collecting device