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Horizontal packaging machine ROBYPAK BP400 BB

Robypak Confezionatrici S.r.l. (Italy) · flow pack · film up to 400 mm · up to 100 packs per minute



ROBYPAK BP400 BB ELETTRONICA — photo by the manufacturer. The photo is indicative: the machine is built for the customer's product, so the particular execution may differ.

Application

A continuous horizontal packaging machine — a flow pack. It packs a discrete product into a pillow bag from a reel of film: pancakes and crêpes, snacks, bakery products, semi-finished products. The Ukrainian offer was prepared specifically for a pancake line.

How it works

The product travels on the infeed belt into the forming box, where the film is folded around it into a sleeve. The sleeve then passes the longitudinal sealing unit, and a rotary unit seals the cross seams and cuts off the finished pack. The length of the pack is set electronically, so a new product does not call for mechanical changes — it is enough to call a recipe from memory.

How the seams are made

— the longitudinal seam is made by three pairs of independent Ø 120 mm wheels: the first pulls the film, the second seals it (heating by an electrical resistance under a precise temperature controller), the third folds the flap. The wheels are of steel, on large bearings with graphite grease for high temperatures;
— the hot wheels move apart automatically every time the machine stops — otherwise the film would burn where it touches them;
— the cross seam and the cut are made by a rotary unit with a pair of jaws carrying heating elements and temperature probes; the bearings are high-temperature and of large size — so that they do not wear out often.

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Technical data

Parameter	Value
Model	BP400 BB ELETTRONICA, horizontal (flow pack)
Output	adjustable from 0 to 100 packs per minute — with ideal product characteristics; it depends on the product and on the type of film
Film width	maximum 400 mm
Film reel	maximum diameter 350 mm
Film	polypropylene, plain and composite laminates — any heat-sealing film
Pack length	set electronically
Forming box	adjustable, included — for the chosen film width
Frame	cantilever, of painted steel; steel casings; four anti-vibration feet with height adjustment within 60 mm
Overall length	4100 mm
Weight	about 650 kg
Control	colour touch screen; the format is changed by calling a recipe from memory
Temperature control	electronic controllers on the sealing jaws with an alarm for any deviation — they catch even the smallest change
Safety	protective guards; conformity to the EU directives, components to UL and IEC standards

Four independent drives

Unit	Drive
Infeed belt	Omron brushless motor
Longitudinal sealing unit	Omron brushless motor
Cross sealing unit	Omron brushless motor
Conveyor under the wheel unit	asynchronous motor with an inverter

Each unit has its own drive instead of a common shaft with mechanical synchronisation: the PLC keeps them in step. That is exactly why the pack length is changed electronically, without resetting the mechanics.

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Options

— stainless steel execution — the frame, the casings and the fixings are stainless; it allows work in wet conditions and frequent washing of the machine;
— print registration control: a photocell reads the mark on the printed film and a PLC-controlled program stops the film in the correct position — the cut and the seam fall between the images;
— teleservice kit: a device connecting the machine to the network for remote diagnostics and for setting the working parameters.

Scope of supply

A box with special tools and the spare parts most likely to be needed is supplied with every machine. All the mechanical, electronic and pneumatic components come from suppliers selected by the manufacturer.

Supply and service

Delivery, packing, installation and commissioning, staff training, a 12-month warranty on the mechanical components, post-warranty service and spare parts. The indicative manufacturing time per the 2025 offer is 90–120 working days.

The manufacturer confirms the offer only after seeing samples of the product, of the packaging materials and of the loading system. The data are indicative; the manufacturer reserves the right to change them without notice.