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Horizontal packaging machine ROBYPAK V500

Robypak Confezionatrici S.r.l. (Italy) · the bag is formed from a reel · tilting feed system · film 500 mm



ROBYPAK V500 — general view: two inclined loading tables with nests for the product and the packaging unit on the right. A frame from the video of the machine at work supplied by the supplier.

Application

The V500 forms the bag from a flat reel of film and packs the product into it. The machine was ordered for packing pasta nests, but the principle is wider: it takes any product that fits into the receiving bowl, one piece at a time or several pieces at once.

How it works

The operator puts the product into the bowl; the loading station weighs it and, when the set weight has been reached, allows automatic feeding. The pusher moves the product onto the forming tube, where the film has already been folded into a sleeve, and pushes it past the sealing and cutting unit. The unit seals the bag with two bars and cuts it off with a serrated knife.

Not to be confused with the vertical ROBYPAK V500 that appears in advertisements: that is a different machine with different data, and only the figure in the name is the same.

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Why the tilting system

On a horizontal machine a loose or unstable product tends to spill out of the bag while it is being fed. The tilting system feeds the product “uphill”, and once it has settled in the bag the inclination is reversed — and the product stays where it is. The angle is adjustable, the system can be switched off, and the drive is separate and PLC-controlled.



Finished bags of product stand in the nests of the inclined conveyor — exactly the inclination the tilting system was made for

The loading station

The operator puts the product into a nest on the loading table. The weight indicator shows the weight and allows feeding only when the set weight has been reached. The station stands on a separate frame so that the vibration of the machine does not disturb the weighing; the nests are made for the customer’s product.



The loading table: nests for the product, start buttons and the touch control panel

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Technical data

Parameter	Value
Model	V500 horizontal, with a tilting system
Output	adjustable, up to 300–500 bags/h — indicative, to be confirmed for the product
Film width	500 mm
Film reel	maximum diameter 350 mm
Film material	PA/PE — per the offer, for the customer’s product
Frame	steel with epoxy powder coating, on four anti-vibration mounts with height adjustment within 150 mm
Casings and parts in contact with the product	AISI 304 stainless steel
Forming tube	one included — for the required bag size
Film pulling	vulcanised belts; pressing, approach to the forming tube and withdrawal are pneumatic and automatic; the belts are turned by two stepper motors
Reel holder	cantilever, with pneumatic locking of the reel
Sealing and cutting unit	two bars; linear movement on ground stainless steel rods Ø 25 mm; cutting by a serrated high-speed steel knife driven by two pneumatic cylinders
Temperature control	electronic controllers on the sealing bars with alarms; they catch even the smallest deviation
Film brake	electronic: an electric motor and tension sensors with adjustment
Control	colour touch panel; memory of setting recipes; self-check of the machine at every start with the alarms shown on the screen
Safety	protective guards; conformity to the current CE directives with a full set of documents

The manufacturer confirms the output and the suitability of the film only after seeing samples of the product, of the packaging materials and of the loading system — this is stated directly in the offer.

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Scope of supply per the offer

— product loading station with a weight indicator: the operator puts the product into the bowl, the display shows the weight and, when the set weight is reached, allows automatic feeding into the machine; a separate frame so that the vibration of the machine does not disturb the weighing; the station is about 1000 mm wide; nests for the customer's product; load cells;
— automatic product pusher — it takes the product from the conveyor bowls onto the forming tube and further past the sealing and cutting unit;
— automatic tilting system — the product is fed "uphill" so that it does not spill out, and after it has been laid in the bag the inclination is reversed and the product stays in place; the inclination is adjustable and the system can be switched off; a separate drive under PLC control;
— print registration photocell — it reads the mark on printed film and keeps the picture in place; a program stops the film in the correct position;
— rectangular forming tube with cut ribs: the collar and the tube are of AISI 304 stainless steel, mounted on quick-release catches;
— gusseting group (soffietti) — it gives the bag a square bottom; mechanical gussets with manual adjustment of the blade entry;
— bottom seam folding — a blade folds the bottom "fin" of the bag right after sealing, while the material is still hot; pneumatic, adjustable from the touch panel;
— bag deflating group — it presses the bag and removes the excess air before sealing; stainless steel deflators on the supports of the sealing bars;
— outfeed conveyor for the finished bag — entirely of AISI 304 stainless steel on a base plate, with stainless steel guide sides, a slat belt of food-grade polyurethane, sliding on machined polyzene guides and with manual height adjustment.

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Options outside the basic offer

— SVM 32 I intermittent coder-dater: thermal transfer, printing area 32 × 50 mm, 4.3" touch panel with a stylus, Sayasis software, upper head support 500 mm with a rail for centring the print, mounted on the machine;
— remote service kit: a device connecting the machine to the network for diagnostics and for setting the working parameters remotely;
— automatic walking feed conveyor: the product goes automatically into the bowls from the guillotine loading station and moves in phase to the pusher; the loading section is about 3500 mm long; nests for the product; the drive is synchronised with the tube and with the release of the guillotines;
— automatic welding topper applicator (fixing a cardboard topper): fibre optic sensor centring the bag, a separator for the cardboard blanks with a magazine, and a head that takes the blank, lays it on the bag, folds it and welds it;
— automatic topper applicator with an eyelet: the same, but instead of welding it crimps a metal eyelet;
— labelling group 100 mm: dispensing speed up to 30 m/min, label stop accuracy ±1 mm, maximum label width 100 mm, length 10–350 mm (other on request), label reel with an outer diameter up to 300 mm.

Supply and service

Delivery, packing, installation and commissioning, staff training, warranty and post-warranty service, spare parts. A case with special tools, a set of spare parts and the parts most likely to be needed is supplied with the machine. All the mechanical, electronic and pneumatic components come from suppliers selected by the manufacturer.

The data are indicative; the manufacturer reserves the right to change them without notice. The exact configuration is agreed when ordering, after samples of the product have been seen.