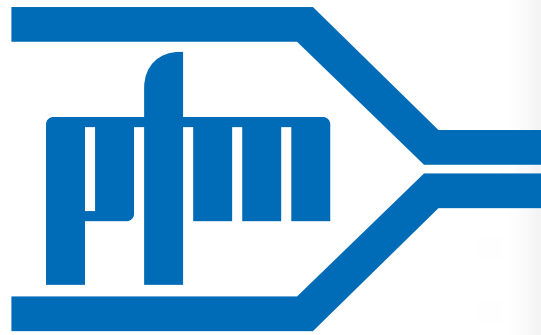


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Packaging Machinery



**Assembly for automated lid
orientation and application**

orientation and lid application

Assembly for automated lid orientation and application

The system has been designed to convey lids to a Robot IRB 340, which then applies them onto flow-packs for fast and automated packaging.

The positioning of the lid 'off-line' allows a better result, reduces the number of stops, as possible short stops in the packaging line are absorbed through storage.



The assembly is so composed:

- A conveyor receives and feeds the packages arriving from an existing line (conveyor structure in anticorrosional and stainless steel).
- Another conveyor placed at 90° receives the flow-packs and conveys them towards the robot.
- A lid feeding unit.
- The visual system, 4-axis robot IRB 340 follows the packs and is equipped with a suction-cup head to pick up the lids and apply them onto the packages; its visual system allows a good precision when positioning the lids.
- A Nordson unit applies hot-melt glue by means of a special pistol that injects the glue from the bottom.
- A PC with dedicated software controls the whole system and constitutes a user friendly man-machine interface.

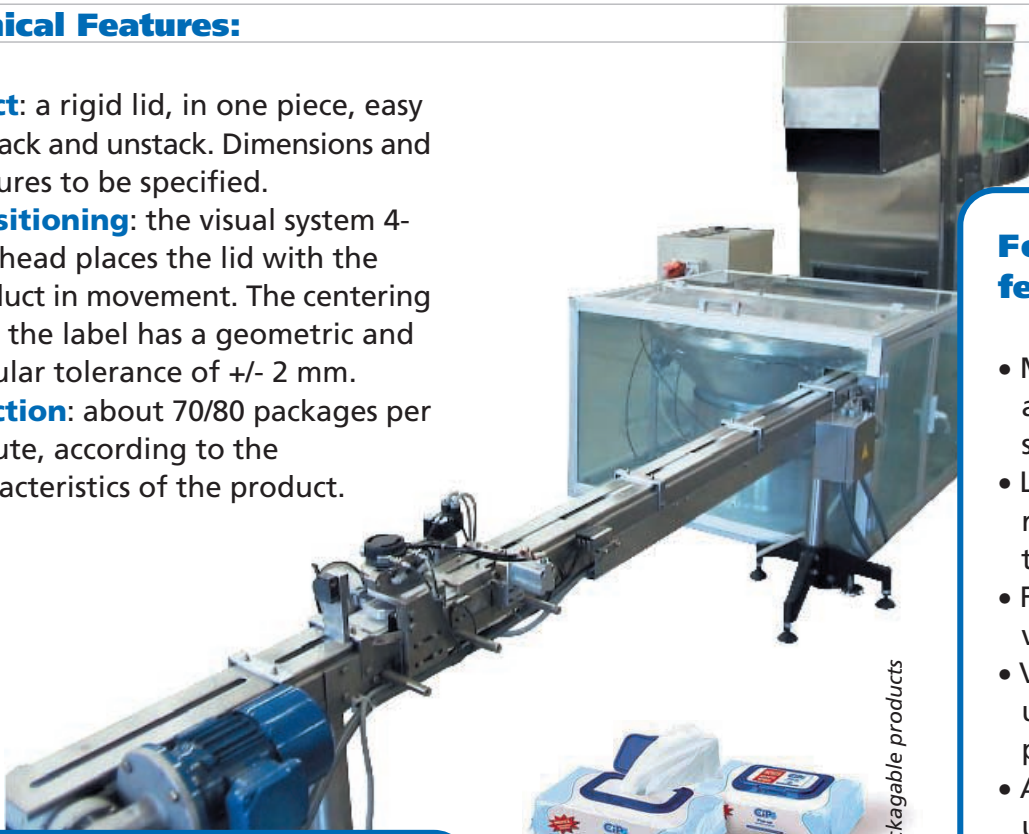
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Technical Features:

Product: a rigid lid, in one piece, easy to stack and unstack. Dimensions and features to be specified.

Lid Positioning: the visual system 4-axis head places the lid with the product in movement. The centering over the label has a geometric and angular tolerance of +/- 2 mm.

Production: about 70/80 packages per minute, according to the characteristics of the product.



Examples of packagable products

Manufacturing features of the pick-up unit

- Industrial robot IRB 340, 4 axis, complete with control unit.
- Programmation portable unit, self-teaching system.
- Floppy disk unit to save the programmes.
- 16-input 16-output digital card to interface peripherals.
- 'Conveyor tracking' card, for product tracking on the conveyor.
- Ethernet communication card, for data transfer from the visual system to the robot control unit.
- Sucking-cup head, with vacuum created by a Venturi complete with pneumatic system.
- Visual system RTS mod. 'Vip System for IRB 340'.

Working cycle

The packages arrive on the in-feed conveyor at the correct distance between each other.

The lids are fed at 90°.

visual sucking-cup head locates and collects the lid, rotates it over the glueing unit, then it follows the flow-pack, identifies the label and places the lid with a slight pressure.

Features of the lid feeding

- Main structure in anticorrosional and painted steel.
- Lid feeding hopper (lids in random order) fitted on the elevator.
- Feeding elevator to the vibration assembly.
- Vibration assembly to line-up the lids, complete with protection against noise.
- Autonomy: 7000-8000 units.
- Optional item: lid check and line-up assembly, to place the lids in the desired opening position. (Note: this device is necessary if the lid cannot be identified by the camera on the robot).



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IRB 340, FlexPicker

What is most startling about FlexPicker is the speed at which it operates.

It readily handles 150 picks per minute, corresponding to a cycle time of 0.4 seconds.

What is more, the system is accurate in that it only selects perfect objects.

If, for example, a cookie, a piece of chocolate or a pill is defect the robot will ignore it.

FlexPicker is made up of a number of hardware and software components designed to help you build a complete picker application.

**Main Applications.
Sorting and collating.**



Packaging Machinery

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