

APS 3100 LP PLUS

- » Smipal's APS 3100 LP Plus is a "3 in 1" system that integrates, inside the central column's structure, the palletizing, empty pallets feeding and inter-layer insertion steps, i.e. the three operations usually performed by separate machines inside their own dedicated space.
- » This system essentially consists of an articulated horizontal arm the far end of which is fitted with a gripper for grasping the pallets and a suction cups unit for handling the cardboard inter-layers.
- » The horizontal beam on which the layers loading head runs is fitted with a telescopic guides system that allows the beam to move faster on its transverse axis.
- » Thanks to telescopic guides, the side of the column that remains clear when the packages are inserted into the loading head is exploited by the Smipal's system to house the mechanical unit that manages the flow of pallets and the insertion of the inter-layers.
- » The arm moves both vertically, sliding on the central column to pick up and release the pallets and inter-layers, and horizontally, to transfer the pallets and inter-layers from their magazines to the palletizing pallet.
- » The machine's automation and control system drives in perfect synch the vertical and horizontal movements of the various mechanical units moving on the central column, enabling them to follow precise and coordinated trajectories that prevent any contact or interference.

Streamlined and compact palletizing line

- » The "3 in 1" configuration substantially reduces the size and dimensions of the palletizing system and offers considerable advantages, compared to traditional solutions made up of multiple standalone modules, in terms of operating flexibility, work safety and machine maintenance.
- » The compact configuration of the APS 3100 LP Plus allows concentrating the use of forklifts, trans-pallets, etc. in a well-defined zone, optimizing the management of the loading and unloading areas, since the pallets and inter-layers handling takes place on just one side of the palletizer.
- » Thanks to its compact size, the new Smipal's system can be easily installed even in bottling and packaging lines that have limited space at the end of the line.



» Video presentation

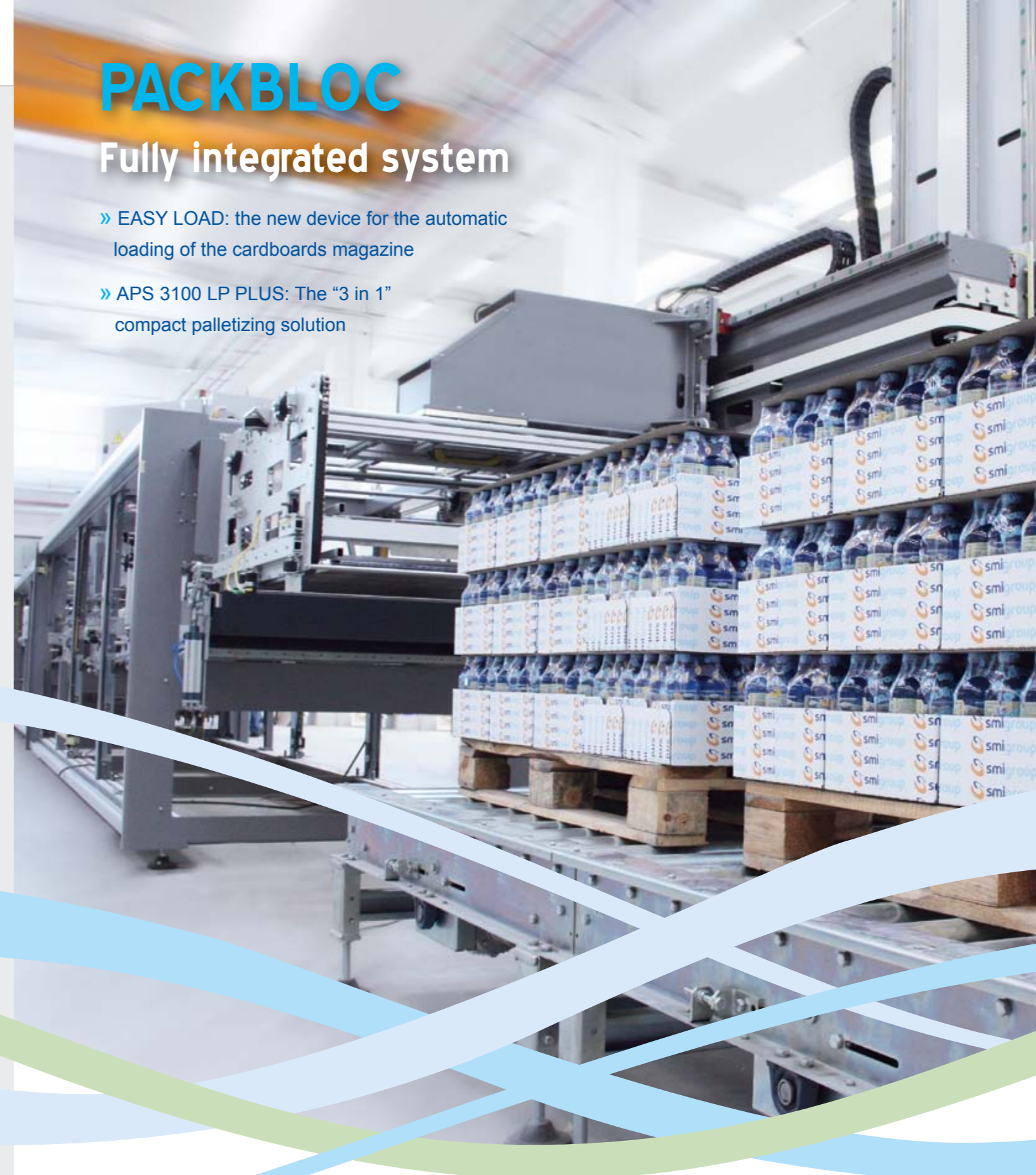


For more information on the new APS 3100 LP Plus, scan this QR code.

PACKBLOC

Fully integrated system

- » EASY LOAD: the new device for the automatic loading of the cardboards magazine
- » APS 3100 LP PLUS: The "3 in 1" compact palletizing solution



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SMI is presenting at Drinktec 2013 an innovative end-of-line packaging solution that joins in a single unit called "packbloc" the secondary packaging and the palletizing operations: the integrated configuration displayed at the show is made up of a Smiflexi's WP 500 wrap-around case packer equipped with the new "Easy-Load" device and a Smipal's APS 3100 LP Plus palletizer featuring the innovative "3 in 1" accessory. This end-of-line packaging solutions completely eliminates the connecting conveyors between the two machines and allows users to save on the initial investment and line-end running and maintenance costs.

EASY LOAD

New device for cardboards magazine: automatic loading and greater safety for the operator

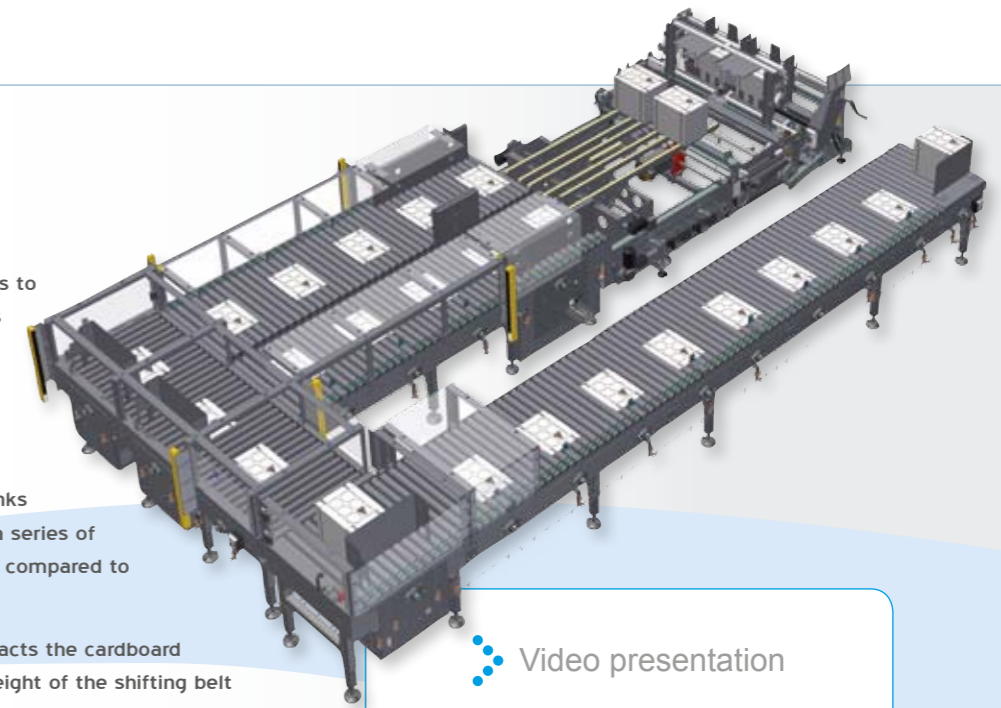
- » Smiflexi's new "Easy-Load" magazine is an innovative solution devised by SMI to eliminate the disadvantages related to the traditional loading of the cardboard blanks magazine, which force the operator to bend his/her body continuously to place the blanks in the bottom part of the machine.
- » This new system patented by SMI (available as an accessory both for the wrap-around case packers of the WP series and for the shrink-wrappers of the SK series) is made up of a series of conveyor belts, fitted with

motorized rollers, which feed the packer's cardboard blanks magazine.

- » The operator can easily load the cardboard blanks, stacked horizontally in uniform groups, because the feeding belt of the cardboard blanks magazine is positioned at the same working height as the packer's in-feed belt, rather than under it.
- » The cardboard blank stacks (placed by the operator on the outermost roller conveyor) are carried on these belts up to the area in which they are translated and then continue up to the collection system at case packer in-feed.
- » Thanks to specific sensors, the layout and feed of the cardboard blanks on the conveyor belts fitted with the motorized roller and their loading into the packer's magazine is, in fact, fully automated.
- » The central section of the "Easy-Load" module is made up of a system that transfers the stacks of cardboard blanks from the feeding belts to the machine's actual magazine: this section is fitted with a series of shifting belts that pick up the stacks of cardboard blanks from the feeding roller conveyors and carry them rapidly to a collection area where special side plates compact the blanks stacks, keep them in place and then lower them gradually for the next pick-up operation.
- » The pick-up takes place by means of a group of suction cups that "pull out" the individual blanks from the bottom of the stack and place them on a group of chains that transfer them to the cardboard blanks climb.

Fluid and constant picking with any type of cardboard blank

- » Smiflexi's "Easy-Load" device enables to automatically load cardboard blanks into the magazine with utmost precision, so that the machine operator is free to perform other tasks.
- » The unloading of the cardboard blanks is done automatically, too, through a series of steps performed in reverse order as compared to the loading steps.
- » The system that collects and compacts the cardboard blanks goes back up to reach the height of the shifting belt and places the stack of cardboard blanks onto it, which the operator can then manually unload from the machine without having to operate in the picker's area.
- » The technology used in Smiflexi's "Easy-Load" magazine also features the great advantage of ensuring fluid and constant picking operations with a wide range of cardboard blanks having a thickness between 0.5 mm and 5 mm.



Video presentation



For more information on the new Easy Load device, scan this QR code.

