



Requirements and Solutions

The Innopal PB-1-NF is a highly flexible, two-column palletizer equipped with level compensation that has been designed to process non-returnable packs such as cartons, trays, shrink packs, in addition to returnable packs such high and low-wall plastic crates. The Innopal PB-1-NF is ideal for handling all palletizing tasks in the beverage industry and the food and non-food sectors. The high flexibility of this machine is reflected not only in the variable pack infeed heights but also in the various designs of the layer preparation system. The user may choose between single or multiple-lane models or robot grouping. The palletizing robot can be optionally equipped for pallet liner processing with a robot-version pallet liner inserter and a pallet liner dispenser.

Key features

- Two-column palletizing robot with variable pack infeed heights
- Open cross conveying
- One-piece stainless steel pusher plate
- Single or multiple-lane pack infeed, variable fully automatic layer formation setup
- The machine is able to process cartons, trays, shrink packs, and high and low-wall plastic crates
- All-sided centering of each layer prior to placement on the pallet
- Palletizing with and without pallet liners possible
- Fully automatic layer changeover optionally available
- Modular design and thus ideal for optimum adaptation to customer requirements coupled with a small assortment of parts
- Ultra-modern drive technology comprised of servo motors, toothed belts, and continuous path control

Standard equipment

- Robust, varnished steel base frame
- Toothed-belt-driven sequences of motion powered by a servo motor
- Standardized operating of all machines
- Operator panel with large graphic interface
- Four-sided, servo motor-driven centering over a pusher plate
- Two-sided, servo motor-driven centering under a pusher plate
- Loading plate made of stainless steel
- Machine protection in accordance with CE conformity



Benefits

- The consistent modular design offers flexibility in changing palletizing tasks, reduces the assortment of required parts, and thus cuts the cost of spare part stockkeeping
- Fully developed machine functions and high quality standards ensure machine availability of up to 98% over a period of many years
- Product conversions and changeovers are easily carried out during production. The optionally available fully automatic layer changeover facility provides push-of-a-button layer changeover thereby ensuring high machine availability



Service
<ul style="list-style-type: none">• Worldwide service• Customized machine layout• Turnkey systems• Commissioning• Training courses
Options
<ul style="list-style-type: none">• Automatic pallet liner supply• Pallet liner dispenser with automatic format changeover• Additional servo motor-driven centering for processing plastic crates• Allen Bradley control• ReDiS remote maintenance interface• Robot grouping station

Technical data
Machine capacity
500 layers per hour
Block height including pallet
2,000 mm max.
Pallet dimensions
750 mm to 1,200 mm (across the direction of palletizing)
750 mm to 1,200 mm (in the direction of palletizing)
Pack dimensions
Length: 100 mm to 600 mm
Width: 100 mm to 500 mm
Height: 100 mm to 400 mm