

***Compact Packaging Machine Designed as an Automated System  
with Multiple Sequential Modules PEK 04***





Voltage: 380 V 50 Hz

Power supply: 3 Kw

Compressed-air system: 6 bar

Compressed-air consumption: 200 ltrs/min

Overall fload-space: 3150\*1360\*2220

Component:

Nordson hot glue device

Includes 2 injection guns

Main modules of the machine:

1. Tray forming station with glue application

- Trays are formed from flat blanks.
- A glue application unit precisely applies adhesive to designated areas of the blank.
- A pressing unit folds and secures the tray until the glue fully sets.

2. Packaging distribution module

- A conveyor feeds the finished packages in a single line.
- A sorting system divides the packages into groups of six using a flow divider.

3. Handling manipulator for stacking

- A robotic manipulator with a vacuum or mechanical gripper.
- Places packages into the tray in two layers (6 packages per layer).
- Adjustable parameters allow operation with different package formats.

4. Stacking station for finished trays

- A conveyor moves filled trays to the stacking module.
- An automatic lifting/lowering system stacks the trays to a specified height.



- A built-in stabilization unit ensures stack stability.

**Design features:**

- Compactness: Optimal module layout minimizes the machine's footprint.
- Automation: Programmable manipulators and control sensors minimize manual labor.
- Versatility: Adjustable settings enable compatibility with various tray and package sizes.

**Productivity** : up to 100 packages in minute

**Materials and components:**

- Frame: Stainless steel (hygienic and wear-resistant).
- High-precision servomotors: For the manipulator and transport units.
- PLC Delta
- Touch screen 7"
- Pneumatic components CYPAG
- Safety components SICK.

# FLEX LINE

S Y S T E M S

