



In-Line (or Drawer-Type) MAP Tray Sealing Machine.



While it serves a similar purpose to the rotary machine—sealing film onto pre-formed trays—this model operates on a **linear, sliding mold system** and is highly focused on **Modified Atmosphere Packaging (MAP)** or vacuum-sealing.

How This Machine Functions

- 1.Linear Tray Feeding:** Pre-formed plastic trays are placed into the rectangular mold cavities on the left. This specific mold is configured to hold **4 trays at a time (2x2 layout)**.
- 2.In-Line Sliding Mechanism:** The tray mold tray slides horizontally on heavy-duty tracks into the central enclosed sealing chamber underneath the main housing.
- 3. Vacuum & Gas Flushing (MAP):** Once inside the enclosed chamber, the machine seals the chamber tight, evacuates the normal oxygen/air, and optionally injects a protective gas mix (like Nitrogen and Carbon Dioxide) to preserve fresh food shelf life.
- 4. Heat Sealing & Profile Cutting:** The upper sealing head presses down, heat-sealing the printed lidding film directly onto the tray rims while a blade cuts perfectly along the outer profile of each tray.
- 5. Ejection:** The mold slides back out horizontally so the operator can remove the finished, air-tight packages and reload the next batch.

Key Features Visible in the Image

- **Printed Film Alignment:** You can see a high-precision sensor tracking the printed lidding film roll on the right, ensuring logos or text line up perfectly over each individual tray before stamping.
- **Heavy-Duty Enclosed Chamber:** The large stainless steel middle enclosure houses pneumatic pistons and vacuum seals required to withstand high-pressure air evacuation and gas flushing.
- **Mobile Industrial Design:** Built on heavy-duty caster wheels with adjustable stabilising levelling feet, making it easy to reposition on a production floor or lock securely into place.
- **Integrated Safety & PLC Controls:** Includes a dedicated emergency stop button and an integrated PLC touchscreen panel at the top left to manage heat seal dwell times, vacuum percentages, and gas injection volumes.

Common Industry Uses

This design is the gold standard for packaging fresh meats, seafood, ready-made meals, pre-cut vegetables, and gourmet sweets where maintaining fresh colours and long shelf-life is critical.

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