



## Automatic Rotary Premade Pouch Packaging Machine



(or **Rotary Doypack / Pick-Fill-Seal Machine**).

This is the exact same type of machine architecture as the previous one, but viewed from the opposite side on a manufacturing assembly floor, highlighting its robust mechanical subsystems and heavy-duty structural build.

### How This Machine Functions

The machine automates high-speed packaging by moving ready-made bags through a circular carousel path:

- 1. Bag Grabbing & Preparation:** Pre-made flat or stand-up pouches are pulled from a magazine feeder on the right side using vacuum cups and secured by heavy mechanical grippers.
- 2. Indexing & Mechanical Opening:** The machine rotates step-by-step. Pneumatic plungers and suction devices pop the pouch completely open, ensuring the bottom gusset of the Doypack is perfectly extended.
- 3. Product Dosing & Filling:** The open bags rotate under the large, central stainless steel turret assembly. An overhead filling system (such as a multi-head scale for snacks or a piston pump for liquids) drops an exact portion into the bag.

- 4. Air Extraction & Sealing:** The machine mechanically deflates the bag to remove excess oxygen. Then, the heavy, angled pneumatic heat-sealing heads (visible on the left side of the main drum) clamp down to weld the top of the pouch air-tight.
- 5. Output:** The finished, retail-ready pouches open up from the grippers and slide out onto a discharge conveyor belt.

### Key Features Visible in this Angle

- **Heated Sealing Heads with Pressure Gauges:** On the left side of the large rotating drum, you can clearly see individual, heavy-duty pneumatic sealing head blocks. Each station is equipped with its own dedicated mechanical pressure gauge dial, allowing technicians to verify consistent clamping pressure across every single bag seam.
- **Complex Pneumatic Control Lines:** The center-right section shows a network of blue and orange pneumatic hoses linked to a dual-shaft plunging mechanism. These feed the high-pressure compressed air needed to drive the fast-acting bag opening, shaking, and closing tools.
- **Factory-Floor Integration:** The unit is mounted on heavy-duty industrial levelling feet with thick nylon bases to damp down high-speed vibrations. In the background, you can see other automated processing machinery, including bucket elevators (on the far right) used to transport raw product upward into filling hoppers.
- **Compact Control Arm:** A localised PLC control interface with physical push-buttons and a digital touchscreen panel is positioned on the right, giving floor operators a quick way to cycle-test or pause the machine during a production run.

### Common Industry Uses

This heavy machinery is typically paired with multi-head weighers or liquid fillers to pack everything from gourmet coffee beans, nuts, and spices to liquid detergents, pet kibble, and frozen dumplings into stand-up zipper pouches.

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