

Automatic Film Overwrapping and Sealing Machine



The Automatic Film Overwrapping and Sealing Machine is engineered for efficient and high-quality wrapping of various boxed products in industries such as cosmetics, pharmaceuticals, food, and electronics. It features a streamlined, linear feeding design and is capable of handling single items or bundled packages of various sizes. The machine uses PLC with a human-machine interface for ease of control, and main drives powered by dual servo motors ensure speed, stability, and precision.

Applications and Key Features:

1. **Versatile Packaging for Different Box Sizes:** Suitable for small, medium, and large boxed items, this machine accommodates single products or bundled items through a linear feeding system. Its stainless steel platform and components ensure hygienic operation, meeting industry standards. Quick part adjustments make it adaptable to different box specifications without the need for extensive reconfiguration.
2. **Dual Servo-Driven System:** The dual-servo design provides fast, stable operation, making it ideal for high-volume, multi-specification packaging needs. The system also includes servo-driven film handling, allowing operators to adjust film size as required for different product dimensions, enhancing efficiency and precision.
3. **Optional Add-Ons for Flexibility:** The machine can be equipped with additional features, such as an easy-tear line mechanism, automatic box-flipping module, box coding, and even a six-side hot stamping function. These options make it adaptable for varied production requirements, adding flexibility and value.

Enhanced Machine Advantages:

1. Fixed Mold Design: The machine's fixed mold design allows for quick and easy mold changes, saving time when switching between products.
2. Simple Mold Adjustment: Adjustments between products are significantly faster and simpler compared to traditional systems, minimizing downtime.
3. Efficient Film Handling System: The improved film handling system ensures smooth, stable film feed, reducing jamming and ensuring consistent wrapping quality.
4. Integrated Temperature Control: The temperature control has been upgraded to a PLC modular system, enabling easier and more precise touch-screen operation, enhancing control over the sealing process.
5. Electronic Safety Protections: An electronic protection system with pusher and film-folding actions incorporates alarm functions for box jamming or product misalignment, automatically stopping the machine to ensure operational safety.
6. Linear Feeding Design: The linear feeding mechanism allows seamless integration with other equipment on the production line. The synchronized conveyor belt can operate in either intermittent or continuous mode, and features a protective design to prevent product scratching, maintaining a high-quality finish.

Technical Specifications:

- Model: 560 5G
- Power Supply: AC 380V, 50Hz
- Total Power: 6.5 kW
- Energy Consumption: 0.25 kW
- Working Pressure: 0.5-0.7 MPa
- Air Volume: 0.95 m³/min
- Packaging Size (mm): Length (L) 50-260, Width (W) 40-250, Height (H) 20-85
- Film Material: Heat-sealable glassine, OPP (BOPP) film, or double-sided PVC film, thickness 0.021-0.03 mm
- Core Diameter: 76 mm, Film Width: 1.2-3 mm
- Packaging Speed: 45-60 boxes per minute
- Max Film Width: 380 mm
- Dimensions (L×W×H): 2350×900×1650 mm (without six-side hot stamping)
- Conveyor Platform Size (L×W×H): 1650×350×950 mm
- Weight: 800 kg