

Automatic Sleeve Wrapping and Heat Shrink Machine



The Automatic Sleeve Wrapping and Heat Shrink Machine is a high-efficiency packaging solution designed for automatic sleeve wrapping and shrink wrapping of various products. This machine is suitable for medium to large-sized products, offering reliable, high-speed packaging with consistent, high-quality results. Integrated with advanced PLC control, this machine streamlines the packaging process, reducing manual labor and increasing throughput. Ideal for industries like beverages, household products, and personal care, this machine ensures secure, tight film wrapping, enhancing the product's appearance and shelf life.

Key Features:

PLC Control System

Equipped with a Panasonic PLC programmable controller, the machine provides precise control over the entire packaging process. The touch-screen human-machine interface (HMI) from SAMKOOM allows operators to easily adjust parameters such as temperature, speed, and film feed settings. The PLC-based control ensures smooth operation, high accuracy, and easy troubleshooting.

Robust Film Handling Mechanism

The machine is fitted with upper and lower film roll racks made from durable stainless steel and aluminum alloy, ensuring stable film feeding and long-term durability. The film cutting and wrapping operations are powered by two LEADSHINE servo motors, ensuring precise film handling and minimal waste.

Automatic Product Feeding and Positioning

Featuring an automatic pusher device and a CHEEMING motor-driven conveyor system, this machine efficiently positions products for wrapping. The product sensors from Panasonic ensure accurate detection and alignment, allowing consistent and precise film application on every item.

Versatile Wrapping Capability

Capable of handling various product sizes with packing dimensions up to 450 x 270 x 330mm and down to 250 x 60 x 140mm, this machine can wrap products of different shapes and sizes. The system supports a wide film thickness range (0.03–0.25mm) and offers shrink speeds of up to 8 parcels per minute, making it suitable for different packaging requirements.

Heat Shrink Tunnel

The heat shrink tunnel, powered by a 24KW steam generator, provides uniform heat distribution, ensuring even and tight shrinkage around the product. Adjustable temperature settings and conveyor speed control enable optimal shrinking based on film type and product specifications, producing a smooth, wrinkle-free finish.

High-Quality Components and Materials

Constructed with high-grade stainless steel and aluminum alloy, the machine's structural components are corrosion-resistant and robust. The cutter mechanism features diamond blades for precision, while the conveyor and roller systems are designed for smooth, consistent performance, minimizing downtime and ensuring product protection throughout the process.

Technical Specifications:

- Packing Speed: 0–8 parcels per minute (depending on product and film size).
- Packing Size Range: Max 450 x 270 x 330mm, Min 250 x 60 x 140mm.
- Film Thickness: 0.03–0.25mm.
- Power Requirements: 220V/380V, 50Hz.
- Machine Dimensions: Sleeve wrapper: 1020 x 830 x 1500mm; Heat shrink tunnel: 2500 x 850 x 1400mm.
- Machine Weight: Sleeve wrapper: 170 kg; Heat shrink tunnel: 300 kg.