

Fully Automatic L-Bar Sealer and Heat Shrink Wrapping Machine



The Fully Automatic L-Bar Sealer and Heat Shrink Wrapping Machine is a high-performance packaging solution designed for precise and efficient sealing and shrinking of products in various industries. Equipped with advanced technology and durable components, this machine ensures professional-quality packaging with minimal human intervention, ideal for high-speed production environments.

Key Components and Features:

Power Supply and Heating System

- Power/Voltage: Operates on 220V, 50/60Hz, with a power consumption of 3 kW.
- Heating Source: Utilizes long-lasting stainless steel heating tubes, enhancing durability and providing consistent heating performance for extended use.
- Sealing Blade: Equipped with a high-temperature-resistant alloy sealing blade, coated with Teflon to prevent sticking. The sealing blade has a width of 600 mm and a length of 800 mm, suitable for a wide range of product sizes.
- Temperature Control: Features a digital temperature controller from Changzhou Huibang, adjustable from 0-400°C for precise control over the sealing process.

Sealing and Cutting System

- Horizontal Sealing Control: The horizontal sealing is powered by a high-quality "Xin Gong" air cylinder from Taiwan, ensuring strong, reliable seals with minimal noise, contributing to a stable packaging process.

Conveyor System

- Belt Material: Made from a 1.2 mm thick, brown PU mesh belt with a width of 440 mm, ensuring smooth product handling.
- Motor: Driven by a motor from Zhongda, which provides stable and smooth transportation of products throughout the process.
- Product Detection: Uses a precision optical sensor from Omron (Japan) to accurately detect product position and control conveyor movement, ensuring precise alignment and sealing.

Film Recovery System

- Recovery Motor: Powered by a Zhongda motor, which facilitates the even and efficient recycling of excess film waste.
- Waste Management Sensor: Equipped with a sensor from Autonics (Korea) to control the waste collection timing, ensuring the system remains clear and efficient.

Film Feeding System

- Feeding Motor: Uses another Zhongda motor to ensure steady and even film feeding, critical for maintaining consistent packaging quality.
- Film Length Control: Managed by an Autonics sensor that precisely regulates film length according to product size, optimizing material usage.

Film Pulling System

- Pulling Motor: Driven by a Zhongda motor, providing a smooth and consistent film pulling operation to maintain the integrity of the package.

Control and Interface

- PLC: Utilizes an Omron PLC from Japan for centralized control, ensuring high precision and reliable automation.
- Temperature Controller: Features a Huibang temperature controller from Changzhou, allowing detailed management of heating parameters.
- Touchscreen Interface: A user-friendly 7-inch color touchscreen from Beijing Kunlun Tongtai provides easy access to all operational settings and system diagnostics, simplifying the user experience.

Frame and Additional Features

- Machine Frame: Constructed from carbon steel with a baked paint finish, enhancing the machine's durability and resistance to wear.
- Included Accessories: Comes with essential accessories, including an extra film pulling belt and heating tube, to ensure maintenance is easy and downtime is minimized.

Technical Specifications:

- Max Sealing Area: 800 mm x 600 mm
- Conveyor Belt Width: 440 mm
- Operating Voltage: 220V, 50/60Hz
- Power Consumption: 3 kW
- Dimensions: Customizable to production needs