

YOU LIAN YLZF-1000

YOU LIAN 50-500ml Automatic Liquid Sachet Filling Packing Machine Model YLZF-1000 User Manual

Model: YLZF-1000

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the YOU LIAN YLZF-1000 Automatic Liquid Sachet Filling Packing Machine. Please read this manual thoroughly before operating the machine to ensure safe and efficient use. Retain this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the machine:

- Ensure the machine is properly grounded before connecting to a power source.
- Do not operate the machine with wet hands or in wet conditions.
- Keep hands and loose clothing away from moving parts during operation.
- Disconnect power before performing any maintenance, cleaning, or adjustments.
- Only qualified personnel should perform repairs or complex maintenance.
- Use appropriate personal protective equipment (PPE) such as gloves and eye protection.
- Ensure adequate ventilation in the operating area.

3. PRODUCT OVERVIEW

The YOU LIAN YLZF-1000 is an automatic liquid sachet filling and packing machine designed for efficient packaging of various pure liquids without particles, such as water, milk, and juice. It features precise control and robust construction for reliable performance.

3.1. Key Features

- **Filling Material:** Suitable for pure liquids (water, milk, juice, etc.) without particles.
- **Filling Volume:** Adjustable from 50-500ml.
- **Capacity:** 1200-1600 bags per hour (BPH).
- **Bag Length:** Adjustable from 50-150mm.
- **Bag Width:** 65-150mm (customizable).
- **Packing Film Material:** PE (Polyethylene).
- **Heat Seal:** Pure copper block for durable sealing.
- **Check-valve:** Prevents liquid return when the machine stops.
- **Cursor Positioning:** Ensures precise bag cutting and pattern alignment.
- **Control System:** PLC control with touch screen operation.
- **Batch Coding:** Options for steel stamp or ribbon coding.
- **Material:** Constructed from SU304 stainless steel for food-grade applications.

3.2. Components and Functions



Figure 3.1: Front view of the YOU LIAN YLZF-1000 Automatic Liquid Sachet Filling Packing Machine.

This image displays the overall structure of the YLZF-1000 machine, highlighting its compact design and integrated components for automated liquid packaging.



Figure 3.2: Key functional areas of the liquid packaging machine.

This diagram illustrates the main functional areas: **1. Cursor Sensing** for stable and accurate positioning; **2. Touch Screen** with PLC control for easy operation; **3. Roll Film Rod** for strong and durable film support; and **4. Bag Puller** with motor-controlled film pulling for smooth and accurate movement.



01 Customizable bag type

Side- seal, Back- seal,
Four-side -seal.

02 Microcomputer

Touch screen to
adjust parameters,
intuitive and convenient

03 Automation

Bag making, filling capacity,
filling liquid, sealing cutting
film, counting, printing batch ,
production date

04 Photoelectric

Equipped with photoelectric
sensing system to ensure
the integrity of the packaging
bag pattern

05 Food Grade

SU304 stainless steel

Figure 3.3: Numbered features of the YLZF-1000 machine.

This image highlights five key aspects: **01 Customizable bag type** (Side-seal, Back-seal, Four-side -seal), **02 Microcomputer** (Touch screen for parameter adjustment), **03 Automation** (Bag making, filling, sealing, cutting, counting, date printing), **04 Photoelectric** (Sensing system for bag pattern integrity), and **05 Food Grade** (SU304 stainless steel construction).



Figure 3.4: Examples of liquids suitable for packaging with the YLZF-1000.

The machine is designed to package various pure liquids, including cow's milk, mixtures, red wine, table vinegar, mineral water, and beverages, provided they are free of particles.

4. SETUP

4.1. Unpacking

Carefully remove the machine from its packaging. Inspect for any visible damage that may have occurred during transit. Retain all packaging materials until you have confirmed the machine is in working order.

4.2. Placement

Place the machine on a stable, level surface capable of supporting its weight (approximately 450kg). Ensure there is sufficient space around the machine for operation, maintenance, and ventilation. Avoid locations with excessive dust, humidity, or direct sunlight.

4.3. Power Connection

Connect the machine to a compatible power supply (110V-220V/50HZ-60HZ). Ensure the power outlet is properly grounded and can handle the machine's electrical requirements. Do not use extension cords unless absolutely necessary, and ensure they are rated for industrial use.

4.4. Film Roll Installation

Load the PE packing film roll onto the film rod. Ensure the film is correctly aligned and threaded through the machine's guides. The machine supports film rolls for both side-seal and rear-seal bag types. The width former determines the bag width, which is constant for a given former, while bag length is adjustable.



bag type: side-seal
PE packing film roll width: 130-300mm
bag length: 50-150mm
(adjustable)
bag width: 65-150mm
(customized)



bag type: rear-seal
PE packing film roll width: 150-320mm
bag length: 50-150mm
(adjustable)
bag width: 65-150mm
(customized)

Figure 4.1: Touch screen control panel and width former.

The image shows the touch screen interface for adjusting parameters and the width former, which shapes the film into the desired bag width. The popular width former size is 320mm, and extra formers can be ordered for different bag widths.

5. OPERATION

5.1. Control Panel Overview

The machine is operated via a touch screen control panel. This interface allows for easy adjustment of various parameters, including bag length, filling volume, and sealing temperature. Refer to the on-screen menus for specific settings.

5.2. Filling Material Preparation

Ensure the liquid to be filled is pure and free of particles. Connect the liquid supply hose to the machine's inlet. The machine's check-valve system prevents liquid backflow when the filling process pauses.



Figure 5.1: The YLZF-1000 machine in operation, producing filled liquid sachets.

This image demonstrates the machine actively filling and sealing sachets, with two completed sachets shown alongside the operational unit.

5.3. Adjusting Bag Parameters

Using the touch screen, set the desired bag length (50-150mm) and filling volume (50-500ml). The machine's cursor positioning system ensures accurate cutting based on printed film patterns.

5.4. Sealing Mechanism

The machine utilizes pure copper blocks for both horizontal and vertical sealing, ensuring strong and consistent seals.



Touch Screen

Comparing to SJ-1000 model, it can adjust length directly on the touch screen.

More intelligent and convenient.

Width Former

One machine with one former.

Former decides the bag width that means width is constant while length can be adjusted.

Popular Width Former Size: 320mm

Can order extra formers for different sizes



Figure 5.2: Horizontal sealing mechanism.

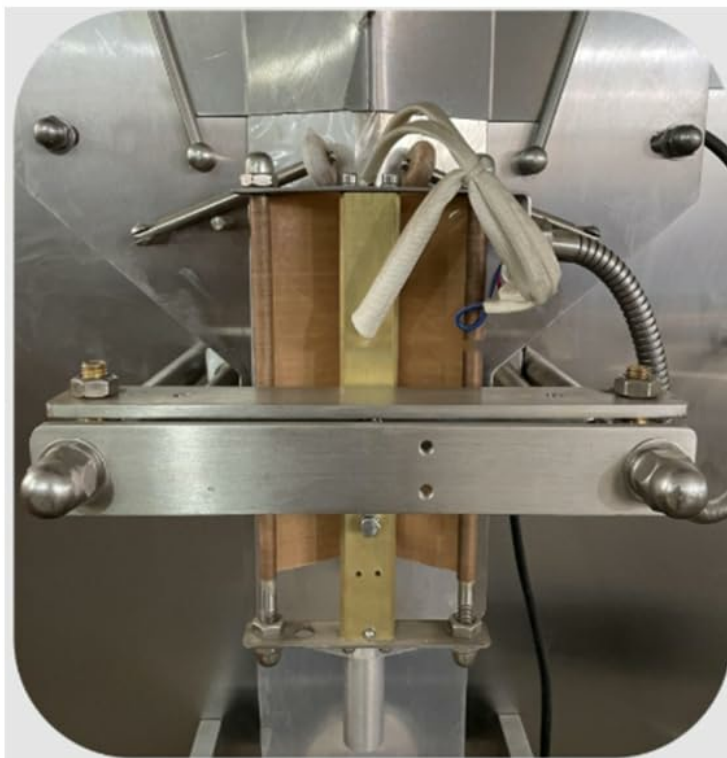
The horizontal sealing block, made of pure copper, creates a firm and aesthetically pleasing seal. Finished products can withstand significant pressure, up to 70 kilograms.



Horizontal Sealing

Pure copper sealing block makes the sealing beautiful and firm.

Finished product can withstand 70 kilograms pressure.



Vertical Sealing

The pure copper block has the advantage of fast heating, uniform temperature and good heat conduction effect without deformation.

Figure 5.3: Vertical sealing mechanism.

The vertical sealing mechanism also uses a pure copper block, known for its fast heating, uniform temperature distribution, and excellent heat conduction properties, preventing deformation during sealing.

5.5. Batch Coding

The machine offers options for applying production dates or batch numbers using either a ribbon coding system or a



Figure 5.4: Ribbon coding and steel stamp options for batch numbering.

This image displays close-ups of the ribbon coding system (top) and the steel stamp mechanism (bottom), both used for printing production information directly onto the packaging film.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your YLZF-1000 machine.

6.1. Cleaning

- **Daily:** Wipe down all external surfaces with a damp cloth. Clean any liquid spills immediately.
- **Weekly:** Disconnect power. Clean the filling nozzle and liquid pathways thoroughly. Inspect and clean the sealing jaws to remove any film residue.
- **Monthly:** Perform a deeper clean of all accessible internal components.

6.2. Inspection

- Regularly check all electrical connections for signs of wear or damage.
- Inspect moving parts for proper lubrication and adjust as needed.
- Examine the packing film path for any obstructions or misalignments.
- Verify the functionality of safety features and emergency stop buttons.

7. TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here or if issues persist, contact customer support.

Problem	Possible Cause	Solution
Machine does not power on	No power supply; Emergency stop engaged; Loose connection	Check power cord and outlet; Release emergency stop; Secure all connections
Inconsistent filling volume	Air in liquid line; Clogged nozzle; Incorrect volume setting	Bleed air from system; Clean nozzle; Adjust volume on touch screen
Poor bag sealing	Incorrect temperature; Worn sealing jaws; Film residue on jaws	Adjust sealing temperature; Inspect and replace jaws if worn; Clean sealing jaws
Film not feeding correctly	Film roll misaligned; Film path obstructed; Bag puller issue	Realign film roll; Clear obstructions; Check bag puller mechanism
Inaccurate bag cutting	Cursor sensor dirty or misaligned; Film pattern unclear	Clean/adjust cursor sensor; Ensure film pattern is clear and consistent

8. SPECIFICATIONS

Parameter	Value
Model Number	YLZF-1000
Filling Volume	50-500ml (adjustable)
Production Capacity	1200-1600 BPH
Bag Length	50-150mm (adjustable)
Bag Width	65-150mm (customizable)
Packing Film Material	PE (Polyethylene)
Voltage	110V-220V
Frequency	50HZ-60HZ
Dimensions (L x W x H)	1050mm x 850mm x 2050mm (approximate)
Weight	450kg (approximate)
Manufacturer	Zhejiang Youlian Machinery Manufacturing Co., Ltd.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your authorized dealer or the manufacturer directly. Ensure you have your machine's model number (YLZF-1000) and purchase date available when contacting support.