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Qomolangma FMJ-1600-WA

Qomolangma FMJ-1600-WA 63-inch Wide Format Cold Laminator User Manual

Model: FMJ-1600-WA

1. Introduction

This manual provides instructions for the Qomolangma FMJ-1600-WA Full-auto Wide Format Cold Laminator. This machine is designed for laminating various materials up to 63 inches (1600mm) in width, offering both cold laminating and heat-assisted functions. It is suitable for pre-masking vinyl graphics, mounting prints on substrates, and over-laminating inkjet prints.



Figure 1.1: Overview of the Qomolangma FMJ-1600-WA Wide Format Cold Laminator.

2. Safety Instructions

Read all safety instructions before operating the laminator to prevent injury or damage. Keep this manual for future reference.

- **Electrical Safety:** Ensure the machine is connected to a grounded AC110V / 50-60Hz power supply. Do not operate with damaged power cords. Disconnect power before maintenance.
- **Moving Parts:** Keep hands, hair, and loose clothing away from rollers and other moving parts during operation.
- **Emergency Stop:** Familiarize yourself with the location and function of the E-stop button for immediate shutdown.
- **Ventilation:** Operate the machine in a well-ventilated area.
- **Stability:** Ensure the machine stand is properly assembled and stable on a level surface before operation.
- **Children and Pets:** Keep children and pets away from the machine during operation.

3. Product Features

The Qomolangma FMJ-1600-WA laminator incorporates several features for efficient and safe operation:

- **Low Temperature Cold Laminating:** Designed to prevent haziness often associated with cold lamination.
- **Full-Auto Operation:** Electrically driven with both auto and foot pedal switch modes.
- **Wide Format Capability:** Maximum working width of 1600mm (63 inches).
- **Heat Assisted Function:** Provides low heating seal laminating with a maximum heating temperature of 60 degrees Celsius.
- **Adjustable Nip Opening:** Maximum laminating thickness of 35mm (1.378 inches).
- **Variable Speed Control:** Adjustable working speed from 0 to 6m/min (236.22in/min).
- **Roller System:** Features a 102mm (4in) diameter top silicon rubber roller and a bottom natural rubber roller.
- **User-Friendly Controls:** Button type control panel with forward and reverse direction control.
- **Safety Mechanisms:** Equipped with E-stop and photocell sensors.
- **Material Handling:** One-side hand crank lift-up system and drop-in type interchangeable 3-inch aluminum shaft.
- **Optional Trimmer Function:** The machine can be equipped with four cutting knives for trimming, if purchased with this option.



Figure 3.1: Optional cutting knives for the laminator. Note: The black hole is for tool holder installation; accessories are included only with the 'with trimmer' option.

4. Setup

Follow these steps to set up your Qomolangma FMJ-1600-WA laminator:

1. **Unpacking:** Carefully remove all packaging materials. Inspect the machine for any shipping damage.

2. **Stand Assembly:** The floor stand is assembled at the customer site. Follow the separate assembly instructions provided with the stand to ensure it is securely and correctly put together.
3. **Placement:** Position the laminator on a stable, level surface in a well-ventilated area, ensuring sufficient space around the machine for material handling.
4. **Power Connection:** Connect the power cord to a grounded AC110V / 50-60Hz electrical outlet.
5. **Foot Pedal Connection:** Connect the foot pedal switch to its designated port on the machine.



Figure 4.1: The Qomolangma FMJ-1600-WA laminator with its assembled floor stand, ready for operation.

5. Operation

Operating the laminator involves powering on, loading materials, and adjusting settings.

5.1 Control Panel Overview



Figure 5.1: The control panel for the FMJ-1600-WA laminator.

- **Display:** Shows status indicators (Warm, Cold, Ready) and other operational information.
- **Heater Button:** Activates the heat-assisted function.
- **UP/DOWN Buttons:** Adjust settings such as temperature or roller pressure.
- **Motor Control Switch (Auto/Pedal):** Selects between automatic operation or foot pedal control.
- **Direction Switch (Forward/Reverse):** Controls the direction of the rollers.
- **Speed Control Knob:** Adjusts the laminating speed.

5.2 Loading Materials

1. Ensure the machine is powered off or in a safe standby mode.
2. Use the hand crank lift-up system to adjust the nip opening to accommodate your material thickness.
3. Carefully feed your print and laminating film into the machine, ensuring they are aligned properly.
4. The drop-in type interchangeable 3-inch aluminum shaft facilitates easy loading and unloading of film rolls.



Figure 5.2: Close-up view of the laminator rollers and material guides.

5.3 Laminating Process

1. Power on the machine.
2. Select your desired mode: **Cold** for standard cold lamination, or activate the **Heater** for heat-assisted lamination (up to

60°C). Wait for the 'Ready' indicator.

3. Adjust the laminating speed using the **Speed Control Knob**.
4. Choose between **Auto** mode for continuous operation or **Pedal** mode for controlled feeding via the foot pedal.
5. Initiate the laminating process using the **Forward** switch or foot pedal.
6. Monitor the material as it passes through the rollers. Use the **Reverse** switch if necessary to correct alignment or clear jams.
7. In case of any emergency, press the **E-stop** button immediately.



Figure 5.3: Side view of the laminator showing the hand crank for adjusting roller height.

6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your laminator.

- **Cleaning:** Regularly clean the rollers and exterior surfaces with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Roller Inspection:** Periodically inspect the silicon and natural rubber rollers for any damage, debris, or adhesive residue. Clean as needed.
- **Power Disconnection:** Always disconnect the power supply before performing any cleaning or maintenance.
- **Storage:** When not in use, store the laminator in a clean, dry environment.

7. Troubleshooting

This section addresses common issues you might encounter.

- **Machine Not Powering On:** Check the power cord connection and the electrical outlet. Ensure the main power switch is in the 'On' position.
- **Rollers Not Moving:** Verify that the motor control switch is set correctly (Auto or Pedal) and that the direction switch is engaged. Check for any obstructions.
- **Poor Lamination Quality (Bubbles/Wrinkles):** Ensure the film and print are properly aligned. Adjust roller pressure using the hand crank. Check for proper temperature if using heat assist.
- **Material Jam:** Immediately press the E-stop button. Use the reverse function if possible to clear the jam. If not, carefully remove the jammed material after disconnecting power.

8. Specifications

Specification	Value
Model	FMJ-1600-WA
Max. Working Width	1600mm (63 inches)
Variable Working Speed	0 - 6m / min (236.22 inches / min)
Max. Nip Opening (Laminating Thickness)	35mm (1.378 inches)
Roller Diameter	102mm (4 inches)
Top Roller Material	Silicon rubber
Bottom Roller Material	Natural rubber
Drive Motor	90W
Power Consumption	1400W
Power Requirement	AC110V / 50 - 60Hz
Machine Size (L x W x H)	2020mm x 550mm x 1250mm (79.5in x 21.65in x 49.2in)

Specification	Value
Net Weight (NW) / Gross Weight (GW)	249kg (547.8lbs)
Max Heating Temperature	60 degrees Celsius
Number of Rollers	2

9. Warranty and Support

The Qomolangma FMJ-1600-WA laminator comes with a **3-year warranty**. Additionally, customers receive **lifetime free technical support** for the product. For warranty claims or technical assistance, please contact your authorized Qomolangma dealer or the manufacturer, TOP123.

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