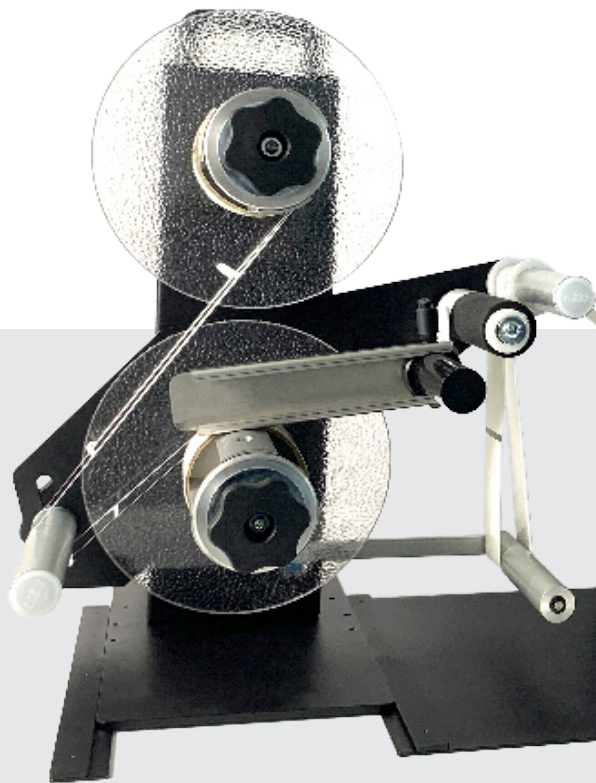




THE WORLD'S LEADING MANUFACTURER OF LABEL DISPENSERS,  
REWINDERS, UNWINDERS, SLITTERS & COUNTING SOLUTIONS



WATCH THE VIDEO



TWIN-MATRIX  
USER MANUAL

[labelmate.com](http://labelmate.com)

FIG. 1

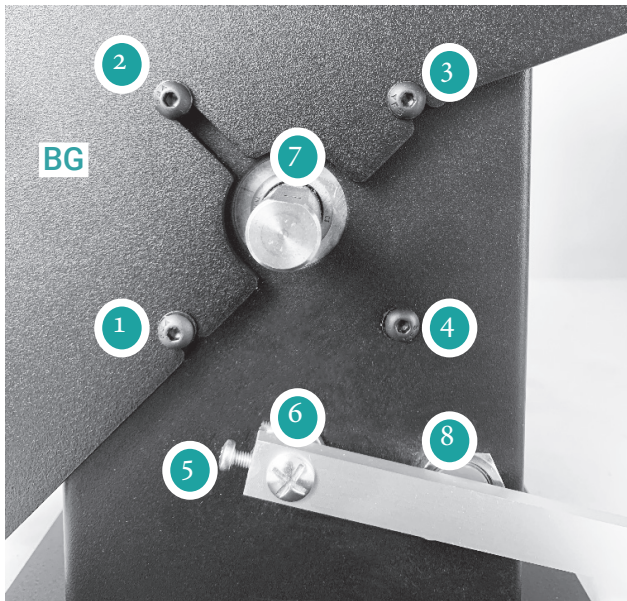


FIG. 2

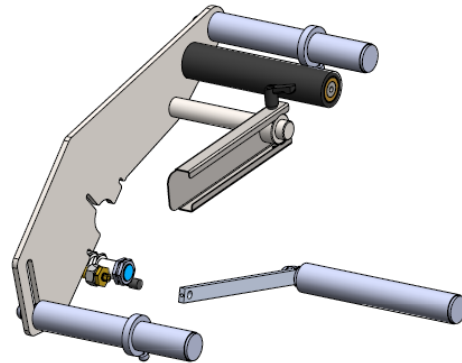


FIG. 3



FIG. 4

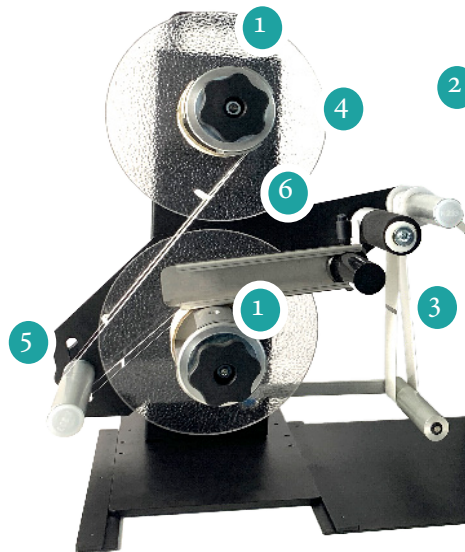


FIG. 6

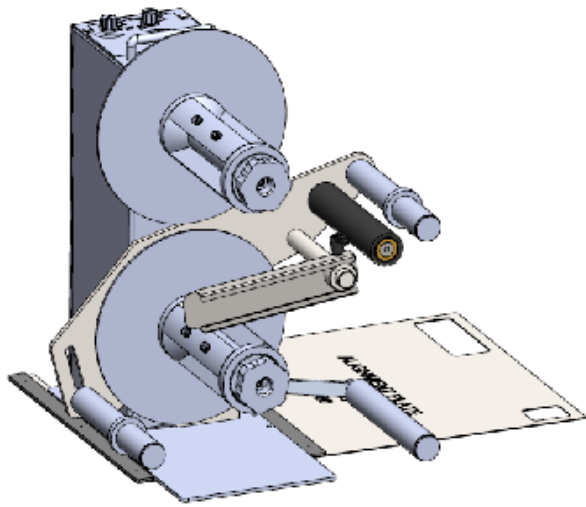


FIG. 5

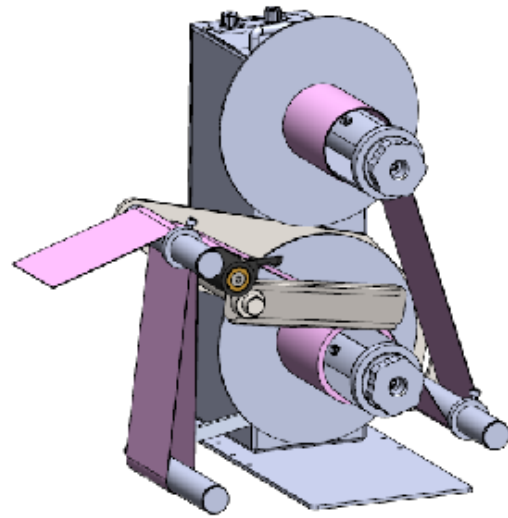


FIG. 7

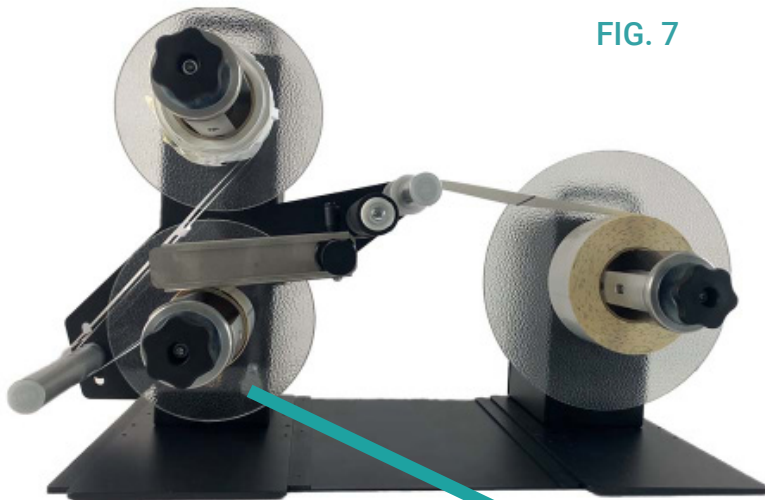
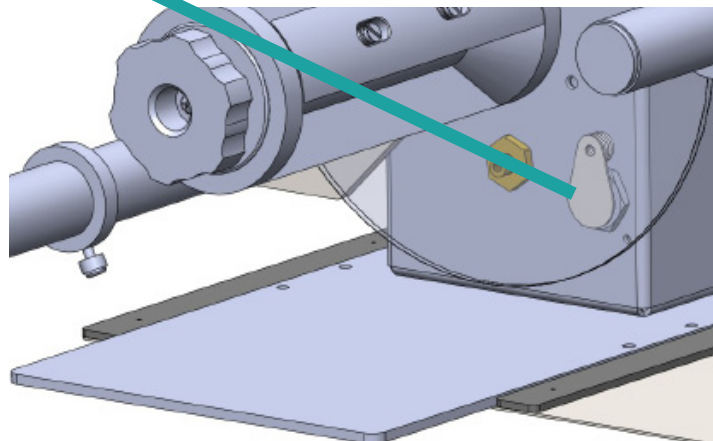


FIG. 8



# Safety First

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AT LABELMATE, SAFETY IS OUR NUMBER ONE PRIORITY. THE FOLLOWING INFORMATION PROVIDES GUIDELINES FOR SAFETY WHEN USING LABELMATE EQUIPMENT.

Any piece of machinery can become dangerous to personnel when improperly operated or poorly maintained.

All employees operating and maintaining Labelmate equipment should be familiar with its operation and should be thoroughly trained and instructed on safety.

Most accidents are preventable through safety awareness.

Every effort has been made to engineer safety into the design of Labelmate equipment per standards set forth by ANSI and others that apply as necessary. Areas of potential danger are mechanically and/or electrically protected. Safety labels and instructional decals are visible to the operator and located near any potential hazard.

## TRAINING AND INSTRUCTION

It is the responsibility of the customer to ensure that all personnel who will be expected to operate or maintain the equipment participate in training and instruction sessions and become trained operators. All personnel operating, inspecting, servicing or cleaning this equipment must be properly trained in operation and machine safety. BEFORE operating this equipment, read the operating instructions in the manual.

## GENERAL SAFETY

- Ensure that all power sources are turned off when the machine is not in use. This includes electrical power.
- Read the manual for any special operational instructions for each piece of equipment. The Labelmate product manual is included in the product packaging and can be found on the website [www.labelmate.com](http://www.labelmate.com)
- Know how the equipment functions and understand the operating processes.
- Know how to shut down the equipment.
- Understand the equipment safety labels
- Wear the appropriate personal protective equipment for the job to be performed (EX: eye protection, gloves, safety shoes, etc.). Ensure that nothing you are wearing could get caught in the machinery.
- When working on or around all equipment, avoid wearing loose clothing, jewelry, unrestrained long hair, or any loose ties, belts, scarves or articles that may be caught in moving parts. Keep all extremities away from moving parts. Entanglement can cause death or severe injury.
- For new equipment, check plant voltage with the voltage specified on the machine. Electrical specifications for your machine are printed on the machine serial number tag. A properly grounded electrical receptacle is required for safe operation regardless of voltage requirements.
- Use the equipment only for its intended purpose.
- Keep the operating zone free of obstacles that could cause a person to trip or fall toward an operating machine. Keep fingers, hands or any part of the body out of the machine and away from moving parts when the machine is operating.
- Any machine with moving parts and/or electrical components can be potentially dangerous no matter how many safety features it contains. Stay alert and think clearly while operating or servicing the equipment. Be aware of operations and personnel in your surroundings. Be attentive to indicator lights and/or operator interface screens displayed on the machine and know how to respond.
- Do not operate machinery if you are fatigued, emotionally distressed or under the influence of drugs or alcohol.
- Know where the FIRST AID SAFETY STATION is located.
- Rotating and moving parts are dangerous. Keep clear of the operating area. Never put any foreign object into the operating area.
- Use proper lifting and transporting devices for heavy equipment. Some types of equipment can be extremely heavy. An appropriate lifting device should be used.

# TWIN-MATRIX

The new TWIN-MATRIX is the smartest way to separate waste matrix from labels. Either as an off-line station combined with an unwinder or directly in-line with your (colour)label printer. The long tension arm creates a loop of labels to support the backfeeding process from your colour printer. With models in different sizes and orientation, there is a suitable TWIN-MATRIX for any printer model.

## GENERAL CONTENT OF THE PACKAGING

- User Manual (this document)
- TWIN-MATRIX BASE UNIT
- Power Supply: INPUT 100-240V- 50-60Hz, Output 15V DC-4,6A
- Tension Arm with set screw and Shaft Screw
- BRACKET GUIDE KIT
- 2 x "Quick-Chuck"™ Quick-Locking Core Chuck, with inner flange

## MODEL SPECIFIC CONTENT OF THE PACKAGING

- Model LMR061; general content with extra UCAT-1 rewinder (CHUCK 076 x 170 & paper guide) and alignment plate
- Model LMR062; general content with extra UCAT-1 rewinder (CHUCK 076 x 220 & paper guide) and alignment plate

## SPECIFICATIONS:

- Weight of the machine: 21 KG up to 24 KG depending on model.
- Max. Label Roll Weight: 2 x 5Kg.
- Max. Label Roll Diam: 220mm.
- Dimensions W x D x H: 40 x 40 x 50 cm

## TWIN-MATRIX MODELS

P/N	MODEL	DESCRIPTION	MAX LABEL WIDTH
LMR057	TWIN-MATRIX-6-R/L	Right to Left paper path, for colour printers (EPSON, TSC, Primera,OKI,...)	170 mm
LMR058	TWIN-MATRIX-6-L/R	Left to Right paper path, for colour printers based on Memjet engines (VIP, Affinia,...)	170 mm
LMR059	TWIN-MATRIX-8-R/L	Right to Left paper path, for colour printers (EPSON, TSC, Primera,OKI,...)	220 mm
LMR060	TWIN-MATRIX-8-R/L	Left to Right paper path, for colour printers based on Memjet engines (VIP, Affinia,...)	220 mm
LMR061	TWIN-MATRIX -6-DELUXE-STATION	Complete off-line station, including TWIN-MATRIX-6-INCH, Unwinder UCAT-1-CHUCK, Alignment-Plate	170 mm
LMR062	TWIN-MATRIX -8-DELUXE-STATION	Complete off-line station, including TWIN-MATRIX-8-INCH, Unwinder UCAT-1-CHUCK, Alignment-Plate	220 mm

The English text is the original instruction. Other languages are translations of the original instructions.

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## STEP 1: INSTALL THE BRACKET GUIDE

- The Bracket Guide(BG) is mounted on the Right side for labels with a path going from Right to Left (FIG.4)
- The Bracket Guide is mounted on the Left side for labels with a path going from Left to Right (FIG.5)
- Loosen (but leaving in the chassis to avoid loss) the 3 screws on the chassis and slide the BG in between the screws and chassis as shown in FIG.1 (screw 1/2/3 for the R/L model and screw 2/3/4 for the L/R model)

## STEP 2: INSTALL THE TENSION ARM

- Depending on the model (R/L or L/R) the Tension Arm can be mounted on the right or left side.
- The Tension Arm MUST be mounted on the same side as the sensor(BLUE, FIG.1 /8) is mounted.
- Loosen the Set Screw at the end of the Tension Arm (FIG.1 /5) and position the Arm with the Set Screw facing the flat on the Tension/Control Arm Shaft.
- Tighten the Set Screw facing the flat on the Shaft
- Re-insert and tighten the Tension Arm Shaft Screw (FIG.1 /6) into the Tension Arm Shaft.

## STEP 3: INSTALL THE 2 TAKE-UP SHAFTS

- CHUCK : Mount the inner Flange onto the Quick-Chuck with two screws provided.
- Slide the QUICK-CHUCK Assemblies onto the TWIN-MATRIX Motor Shafts allowing for clearance to the Chassis and Motor Screws. Tighten the Allen Screw onto the flat part of the Motor Shafts (FIG.1 /7) until it is tight.
- Set the TWIN-MATRIX in place near the label exit slot of the printer, keeping sufficient distance for the Tension Arm to move freely up and down
- FIG.6 shows the optional base-plate that can assist to align the TWIN-MATRIX with your printer
- Plug the Power Supply in a suitable power outlet and connect the TWIN-MATRIX who is now ready for use

## PREPARATION FOR REWINDING

- Switch the power off
- Slide an empty label core over the 2 Quick-Chucks until the core is against the inner Flange Plate. On the Quick-Chucks, tighten the Lock Knob (FIG.4 /1)
- Feed the label web from the printer over the first shaft (FIG.4 /2), go under the Tension Arm (FIG.4 /3) and up again over the black rubber platen roller (FIG.4 /4)
- Make sure to have sufficient free material, circa 50 cm
- Start to separate the waste matrix from the backing paper and guide the waste matrix under the next shaft (FIG.4 /5)
- Secure it to the upper take-up roll core with tape as shown in FIG.4. and attach the labels (now without the waste matrix) to the lower take-up roll core.

## CONTROL PANEL SETTINGS FIG.3

### R/L MODEL (FIG.4)

- The upper motor should turn clockwise (arrow to the right) and the lower motor counter-clockwise (arrow to the left)
- Set the Torque/speed for both motors to align with the speed from your printer.

### L/R MODEL (FIG.5)

- The upper motor should turn counter-clockwise (arrow to the left) and the lower motor clockwise (arrow to the right)
- Set the Torque/speed for both motors to align with the speed from your printer

### IMPORTANT

- Both motors are activated when the paper loop is long enough and the Tension Arm comes in front of the sensor. Minor adjustments from the Torque might be required during the process when rewinding to a maximum roll capacity.

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## USING THE TWIN-MATRIX OFF-LINE WITH UNWINDER

- The Bracket Guide(BG) is mounted on the Right side for labels with a path going from Right to Left (FIG.4)
- Loosen (but leaving in the chassis to avoid loss) the 3 screws on the chassis and slide the BG in between the screws and chassis as shown in FIG.1 (screw 1/2/3)
- DO NOT install the TENISON ARM (FIG.7) but cover the sensor with the small shield, included in your packaging and shown in FIG.8.
- The shield will activate both motors permanently, speed and torque is set on the control panel
- Ensure to put the potentiometers both on ZERO at the start and at the end of a job and gradually increase the speed with the potentiometer to launch your rewinding job.



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