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LABELMATE USA

Label Handling Innovations

Rewinders • Slitters • Dispensers • Applicators • Unwinders

Print Solutions • Counters • Core-Chucks • Splicers

TWIN-MATRIX

In-Line Matrix Removal System

User Manual

FIG. 1

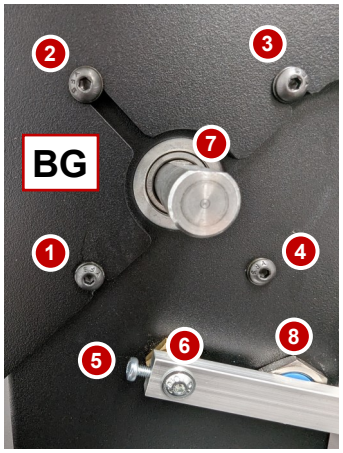


FIG. 2

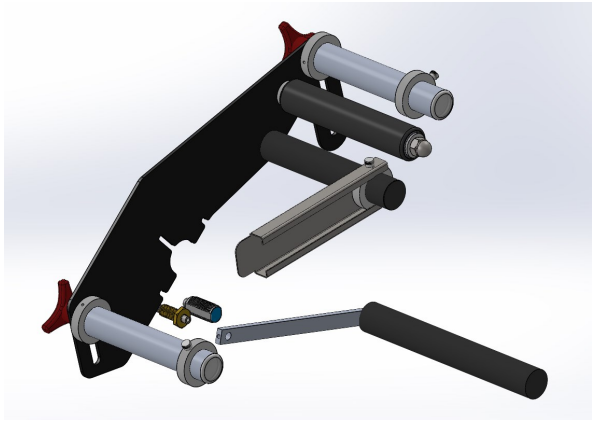
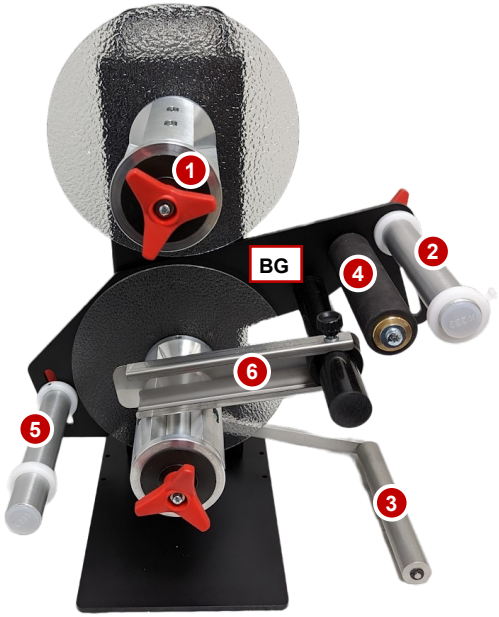


FIG. 3

FIG. 4



CONTROL PANEL SETTINGS (FIG. 3)

R/L MODEL (FIG.3)

- 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.3)

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

NOTE:

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

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 leave in the chassis to avoid loss) the 3 screws on the chassis and slide the bracket guide in between the screws and chassis as shown in **Fig. 1** (screw 1, 2, 3).
- Do not install the tension 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, and speed and torque are set on the control panel.
- Make sure that the torque adjust dials are turned all the way down to zero at the start of a job. Gradually increase the speed to commence rewinding and removing the waste matrix.

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 (BG) is mounted on the left side for labels with a path going from left to right **(Fig. 5)**
- Loosen (but leave in the chassis to avoid loss) the 3 screws on the chassis and slide the bracket guide (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 (L or R) the tension arm can be mounted on the left or right side.
- The tension arm must be mounted on the same side as the blue sensor (**Fig. 1** and **Fig. 8**).
- 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 onto the flat of the tension/control arm shaft.
- Re-insert and tighten the tension arm shaft screw (**Fig. 1, #6**) into the tension/control arm shaft.

STEP 3: INSTALL THE TWO TAKE-UP SHAFTS

- Attach the inner flanges onto the Quick-Chuck Core-Holders with the two screws provided.
- Slide the Quick-Chuck assemblies onto the TWIN-MATRIX motor shafts allowing for clearance between the chassis and motor screws. Tighten the Allen screw onto the flat part of the motor shaft (**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 in aligning the TWIN-MATRIX with your printer.
- Plug the power supply into a suitable power outlet and connect it to the TWIN-MATRIX which is now ready for use.

PREPARATION FOR REWINDING

- Switch the power off.
- Slide an empty label core over each of the 2 Quick-Chucks until the core is pressed against the inner flange of the Quick-Chucks, and tighten the red locking knob (**Fig. 4, #1**)
- Feed the label web from the printer over the first shaft (**Fig. 4, #2**), thread it under the tension control arm (**Fig. 4, #3**), and up again over the black rubber platen roller (**Fig. 4**)
- Make sure to have sufficient free material, about 20” (50cm).
- Start to separate the waste matrix from the backing paper and guide the waste matrix under the rear roller (**Fig. 4, #5**).
- Secure the leading edge of the waste matrix to the upper take-up roll core with tape (**Fig. 4**).
- Attach the labels for the finish roll (now without the waste matrix) to the lower take-up roll core-holder.

FIG. 5

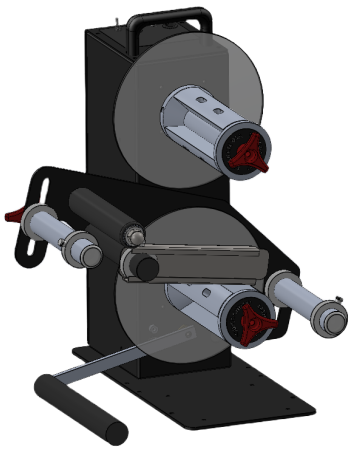


FIG. 6

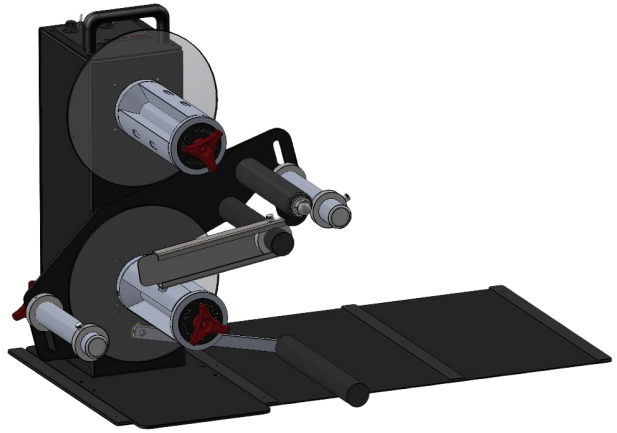


FIG. 7

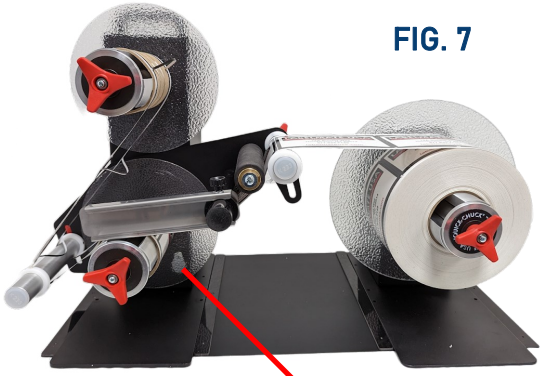
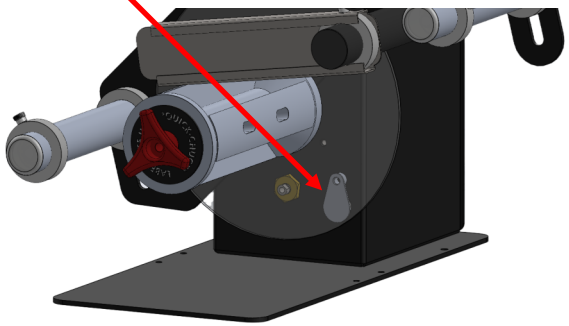


FIG. 8



Safety First

Safety is our number one priority at Labelmate. The following information provides guidelines for safe operation of Labelmate equipment.

- Any machine can be dangerous to operators when improperly used or poorly maintained.
- All employees operating and maintaining Labelmate equipment should be instructed on correct use and safety guidelines.
- Most accidents are preventable if adequate precautions are taken.
- Be aware of safety labels and instructional decals that have been placed near any potential hazards.

TRAINING AND INSTRUCTION

It is the responsibility of the customer to ensure that all personnel are instructed on proper operation prior to use. All personnel operating, inspecting, servicing, or cleaning this equipment must be properly trained in operation and machine safety. Read all operating instructions before using this equipment.

GENERAL SAFETY

- Ensure that all power sources are turned off when the machine is not in use.
- Read the manual for any special operational instructions for each piece of equipment; user manuals are included in the product packaging and/or can be found on the website www.labelmateusa.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 (eg: eye protection, gloves, safety shoes, etc.).
- 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 could cause severe injury or death.
- For new equipment, check plant voltage with the voltage specified on the machine; electrical specifications for your machine are printed on the power adaptor used with the machine.
- A properly grounded electrical receptacle is required for safe operation regardless of voltage requirements.
- Use the equipment for its intended purpose only.
- Keep the operating zone free of obstacles that could cause a person to trip or fall toward an operating machine.
- 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.
- Use proper lifting and transporting devices for heavy equipment.
- 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.

TWIN-MATRIX

The new TWIN-MATRIX is the cleanest and most efficient way to remove waste matrix from labels. Either as an offline station combined with an Unwinder, or directly in-line with your label printer. The tension control arm creates a loop of labels to support the back-feeding process from your color printer. With models in different sizes and orientations, there is a suitable TWIN-MATRIX for any printer model.

GENERAL CONTENT OF THE PACKAGING

- User manual (this document)
- TWIN-MATRIX Drive Unit
- Power Supply: PS-65
- INPUT: 100-240VAC 50/60Hz
- OUTPUT: 19VDC4A
- Tension arm with set screw and shaft screw
- Bracket guide kit
- 2x “Quick-Chuck”™: Quick-locking core chuck, with inner flange

SPECIFICATIONS:

- Weight of the machine: 21 to 24 Kg (45 to 53 lbs.) depending on the model.
- Max. Label Roll Weight: 2 x 5 Kg (11 lbs.
- Max. Label Roll Diameter: 220 mm (8.7 in)
- Dimensions W x D x H: 18 x 18 x 20 in. (40 x 40 x 50 cm)

TWIN-MATRIX MODELS

P/N	MODEL	DESCRIPTION	MAX LABEL WIDTH
80-271-0003	TWIN-MATRIX-6(L)	Right-to-Left paper path	6” (170mm)
80-271-0004	TWIN-MATRIX-6(R)	Left-to-Right paper path	6” (170mm)
80-271-0005	TWIN-MATRIX-8(L)	Right-to-Left paper path	8” (220mm)
80-271-0006	TWIN-MATRIX-8(R)	Left-to-Right paper path	8” (220mm)
80-271-0007	TWIN-MATRIX-10(L)	Right-to-Left paper path	10” (270mm)
80-271-0008	TWIN-MATRIX-10(R)	Left-to-Right paper path	10” (270mm)
80-271-0009	TWIN-MATRIX-6-DELUXE-STATION	Complete offline station including CAT-3-CHUCK Unwinder & Alignment Plate	6” (170mm)
80-271-0010	TWIN-MATRIX-8-DELUXE-STATION	Complete offline station including CAT-3-CHUCK Unwinder & Alignment Plate	8” (220mm)
80-271-0011	TWIN-MATRIX-10-DELUXE-STATION	Complete offline station including CAT-3-CHUCK Unwinder & Alignment Plate	10” (270mm)