

JetMounter™ JM18, JM26 & JM34



The JM18, JM26 and JM34 are motorized table-top laminators that deliver superior results. These smaller JetMounter™ models are designed for mounting and laminating inkjet output, but are equally capable of handling photographic or any printed media. They are easy to set up and operate for beginners and experienced users alike, and are widely used by photo/digital art studios, picture framers and other creative shops. Standard features include all-steel construction, variable speed control, forward and reverse, foot pedal control, silicone rollers, supply shaft, and photo cell safety protection.

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Overview

Thank you for purchasing a Drytac® JetMounter™ JM18, JM26 or JM34. The information contained in this Operator's Manual will explain the basic methods of mounting and laminating with these easy-to-use roller laminators.

JM18, JM26 & JM34 Technical Specifications			
	JM18	JM26	JM34
Max Laminating Width	18.25" (464mm)	26.25" (667mm)	34" (863mm)
Roller Diameter	2.5" (63mm)	2.5" (63mm)	2.5" (63mm)
Roller Construction	Steel with High Release Silicone Covering		
Width	25.5" (650mm)	33.25" (845mm)	41" (1050mm)
Depth	11.75" (300mm)	12" (310mm)	11.8" (300mm)
Height	13" (330mm)	12" (310mm)	13.38" (340mm)
Weight	51 lbs (23 kg)	53 lbs (24 kg)	70.5 lbs (32 kg)
Max Board Thickness	1" (25mm)	1" (25mm)	1" (25mm)
Max Material Roll Diameter	8" (203mm)	8" (203mm)	8" (203mm)
Electrical Requirements	110V, 50/60Hz	110V, 50/60Hz	110V, 50/60Hz
Speed Range	2.5 - 18 fpm (0.76 - 5.5 mpm)	2.5 - 18 fpm (0.76 - 5.5 mpm)	2.5 - 18 fpm (0.76 - 5.5 mpm)
Roll Core Size	3" (76mm)	3" (76mm)	3" (76mm)
Packaged for Shipment			
Width	30" (762mm)	37.5" (953mm)	49.6" (1260mm)
Depth	15" (381mm)	15" (381mm)	18.1" (460mm)
Height	15" (381mm)	15" (381mm)	18.1" (460mm)
Weight	57 lbs (26 kg)	59 lbs (27 kg)	115 lbs (52 kg)

Warranty

Every Drytac machine is designed and manufactured to provide years of dependable service. To achieve the best results, the machine should be set up and operated in accordance with the instructions provided in its corresponding Operator's Manual.

Our equipment warranty covers parts for twelve (12) months from the date of purchase. Rollers are guaranteed against manufacturing defects for three (3) months.

Return your warranty card to Drytac as soon as possible. By doing so, we will be able to more efficiently address your concerns in the unlikely event that you encounter an issue. You will find a section in the Operator's Manual for recording this important information and for noting any future parts or service requests.

Normal wear and tear, damage to the silicone rollers, and damage due to abuse, improper operation or installation is not covered by this warranty. Conditions that will void the warranty include, but are not limited to:

- Failure to follow the instructions contained in the Operator's Manual
- Unauthorized changes or modifications to the equipment or the stand (where applicable)
- Misuse of the equipment for purposes other than specified in the Operator's Manual

Drytac will not be held responsible for any damage or consequential damage caused by the equipment. After the warranty period has expired, Drytac will provide all reasonable product assistance and support to resolve any problems that may arise.

Before calling the Drytac Technical Services department, note the Registration Information for your machine and have it available for reference.

Registration Information

JetMounter™ JM18, JM26 and JM34 Registration Information

COMPANY NAME: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

MODEL #: _____

SERIAL #: _____

PURCHASE DATE: _____

WARRANTY CARD RETURN DATE: _____

BY: _____

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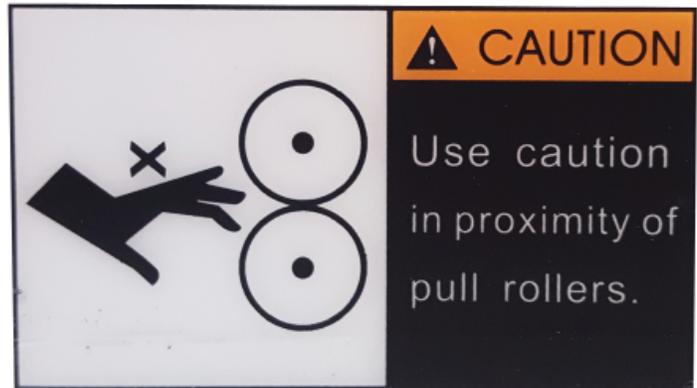
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bristol@drytac.com

Important Safety Information

Before operating the JetMounter™ JM18, JM26 and JM34 for the first time, read and understand the following safety-related information. Failure to follow these procedures may result in serious personal injury and/or damage to the equipment and materials being used.

Safety Symbols

Danger and/or warning symbols indicate imminently and/or potentially hazardous situations that, if not avoided, may result in serious injury or death.



Important Safety Information

The JetMounter™ JM18, JM26 and JM34 perform mounting and laminating applications by using two rollers to apply uniform pressure to mounting adhesives and overlaminating films. The point where the rollers touch these materials is called the "Nip". This area creates a potential pinch hazard for fingers or other objects. **TO AVOID INJURY, ALWAYS KEEP YOUR FINGERS AWAY FROM THE NIP AREA.**



When using a large supply roll, be aware that a pinch hazard may exist between the top roller and the supply shaft. When working from the rear of the machine, be aware of the pinch point (Nip area) of the contacting rollers and exercise extreme caution to avoid injury.

No persons under the age of 16 should be allowed to operate the equipment.

DO NOT operate the equipment while under the influence of alcohol, prescription drugs or any other substance that could impair your judgment or reaction time.

Remove any jewelry such as rings, bracelets and necklaces prior to operating the equipment. Keep loose clothing, neckties, artificial fingernails, long hair, and anything else that might easily be drawn into the rollers away from the machine.

Always work at a slow speed until you become familiar with the equipment.

Exercise caution when lifting rolls of adhesive or laminate due to their weight. Obtain assistance to avoid personal injury or damage to the equipment and materials.

Always disconnect the equipment from the power supply before removing any panels for service.

Important Safety Information

Safety Features

The following safety features are designed to offer a reasonable measure of protection against injury while maintaining an operator-friendly machine. Please do not attempt to disable or alter their functionality in any way. **Any modifications will void the warranty and may pose a serious risk to the operator. If any malfunction occurs, stop using the machine immediately and contact the Drytac Technical Services department.**

The JM18, JM26 and JM34 have electric eyes or photocells installed in front of the Nip area for safety. When interrupted, they will stop the rollers immediately and sound a buzzer as a warning to indicate that an object is breaking the photocell circuit. This occurs when the mode switch is set to "Auto". Be particularly cautious when operating the equipment in the "Foot" mode as the rollers WILL NOT STOP when the photocells are interrupted. An audible alarm will sound, but the rollers will continue to turn at a reduced speed.

Prior to operating the equipment, always check that the photocells and buzzer are working properly. Select the Auto mode and use a piece of cardboard to block the photocells to confirm that the alarm sounds and the rollers stop.

Setup Procedures

Unpacking and Installation

Upon receipt of your new JM18, JM26 or JM34, inspect the carton(s) carefully for signs of physical damage or mishandling. Report any damage to the shipping company immediately and contact the Drytac Customer Service department if replacement parts are needed. If there is no apparent damage, proceed with unpacking.

It is recommended that two people unpack the equipment to avoid personal injury or damage to the equipment.

Select a clean, well-lighted work area that allows access to both the front and back of the machine. Position the machine on a level, sturdy surface that can support its weight and is at an optimum working height for the operator. Refer to the Technical Specifications Chart on page 1 for individual weight and size dimensions.

Parts Identification



Equipment Parts	
A	Left Height Adjustment Knob
B	Supply Shaft
C	Right Height Adjustment Knob
D	Control Panel
E	Photocell
F	Infeed Table
G	Foot Pedal
H	Media Guide

On/Off Switch: A rocker switch located on the back of the machine near the power cord entry. Used to power the machine on and off. The switch should be in the "Off" position when loading/unloading adhesive or laminate, cleaning the rollers, or performing other activities that require close proximity of your fingers to the Nip area.

Auto/Foot Switch: A two-position rocker switch located on the Control Panel. Used to select the mode of operation. In "Auto" mode, the Motor Direction Switch activates the bottom roller. In "Foot" mode, the Foot Pedal activates the bottom roller. The photocell safety feature functions differently in each operation mode. Review the important safety information prior to selecting the mode of operation.

Foot Pedal: A foot switch positioned on the floor within easy reach of the operator. Used to activate the bottom roller when the Auto/Foot Switch is in "Foot" mode. The Foot Pedal acts as a safety device. When set to "Foot" mode, the machine will not operate unless the Foot Pedal is depressed.

Motor Direction Switch: A three-position rocker switch located on the Control Panel. Used to select the direction that material is fed through the rollers. The top position feeds material forward through the machine. The center position turns off the motor. The bottom position reverses material back towards the operator, working at a slower speed.

NOTE: The reverse function works in "Foot" mode only. It does not work in "Auto" mode.

Setup Procedures

Speed Control Knob: A knob located on the Control Panel. Used to control the speed of the machine. Rotate the knob to the right to increase the speed of the roller in either "Auto" or "Foot" mode. Before using the machine, rotate the knob all the way to the left to the "Off" position.

Height Adjustment Knobs: Knobs located on the left and right sides of the top of the machine. Used to adjust the top roller height and pressure. Rotate the knobs clockwise to lower the top roller and counter-clockwise to raise it. To properly adjust pressure, refer below to *Setting Roller Pressure*.

Supply Shaft: A shaft with core chucks. Used to hold and apply tension to adhesive or laminate on the machine. Ensure the core chucks are facing the proper direction to apply back tension to the material.

Photocells: Electric eyes located on the left and right sides of the machine in front of the rollers. A safety feature used to protect the operator from the Nip area between the rollers. When an object interrupts the photocells while the machine is in "Auto" mode with the Motor Direction Switch in the top position, the rollers will stop turning and an alarm will sound. Once the object is removed from the Nip area, the rollers will start turning again at the speed set on the Speed Control Knob. When an object interrupts the photocells while the machine is in "Foot" mode with the Foot Pedal depressed, the rollers will turn at a slower speed and an alarm will sound. In "Foot" mode, the rollers will not stop unless the Foot Pedal is no longer pressed. Once the object is removed from the Nip area, the alarm will stop and the roller will turn at the set speed.

Media Guide: Guide located on the top roller that holds the graphic on the roller during mounting and lamination.

Setting Roller Pressure

The following steps apply to setting the pressure on the rollers. Begin with the On/Off Switch set to "Off", the mode set to "Auto", the Motor Direction Switch set to "Off", and the Speed Control Knob rotated fully counter-clockwise. Rotate both Height Adjustment Knobs counter-clockwise to raise the top roller.

1. Slide a section of the mounting board into the roller Nip area.
2. Rotate both Height Adjustment Knobs clockwise to lower the top roller until it makes light contact with the mounting board.
3. Turn the On/Off Switch to the "On" position; the power indicator light will come on.
4. Turn the Auto/Foot Switch to "Foot" mode.
5. Turn the Motor Direction Switch to the bottom position (reverse).
6. Depress the Foot Pedal.
7. Slowly turn the Speed Control Knob to remove the board from the rollers (reverse).
8. Switch the Motor Direction Switch to the "Off" position.
9. For optimal results, rotate both Height Adjustment Knobs approximately 1/8 of a turn clockwise to slightly lower the roller (after the board has been removed).

NOTE:

Applying too much pressure may damage the machine or the material being used. Do not overtighten the Height Adjustment Knobs.

Mounting Applications

Selecting Mounting Board and Adhesive

Selecting the proper mounting board/substrate is very important. Common materials that can be used are:

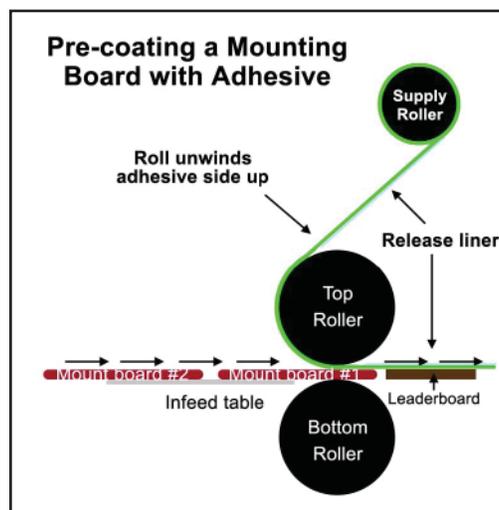
- Foam board - FomeCor®, GatorBoard®, HartBoard®, etc.
- Illustration board
- Rag board
- Medium Density Fiberboard (MDF)
- Corrugated plastic board - CoroPlast®
- Rigid plastic board - Sintra®, Styrene, etc.
- Tempered hardboard - Masonite®

Once the mounting board has been selected, determine whether to pre-coat it with adhesive or purchase pre-cut and pre-coated boards. While the use of pre-cut, pre-coated boards will save time, coating your own mounting board is more economical and allows for maximum flexibility in terms of sizing and substrate selection.

Pre-Coating Mounting Board

Pre-coating the mounting board means applying a mounting adhesive to one side of the board so that a graphic image can be mounted to the board later. The use of a Leader Board is recommended for this process. For instructions, refer to page 15.

1. Adjust the rollers for proper pressure.
2. Load the roll of pressure sensitive adhesive (PSA) onto the Supply Shaft so that the material can be pulled toward the operator from the underside of the roll with the adhesive side facing up (the release liner side should be in contact with the roller as shown in the illustration below).
3. Pull the adhesive off of the roll so that about 4" (102mm) lies flat on the work table and is draped in front of the rollers.

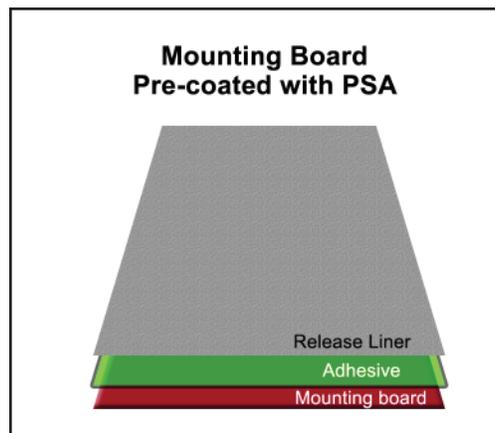


Mounting Applications

Pre-Coating Mounting Board cont.

4. Lay the Leader Board on top of the exposed adhesive on the work table. Push the Leader Board and adhesive into the Nip area (where the rollers make contact). When pushing the Leader Board into the adhesive, make sure it is parallel to the rollers.
5. Position the first mounting board behind and against the Leader Board. Check for proper alignment and feed through the rollers (in either "Auto" or "Foot" mode). Feed one board after another, as needed. Trim the excess adhesive off of the board.
6. The mounting boards are now pre-coated with PSA, which is still protected by the release liner. The pre-coated boards can be used for immediate mounting or stored for future use.

TIP:
 When a graphic image is going to be laminated with a gloss overlaminating film, the use of very smooth substrates with glossy surfaces (such as Masonite®) is preferred. This will minimize the effect of board imperfections (i.e., "orange peel") in the finished product.



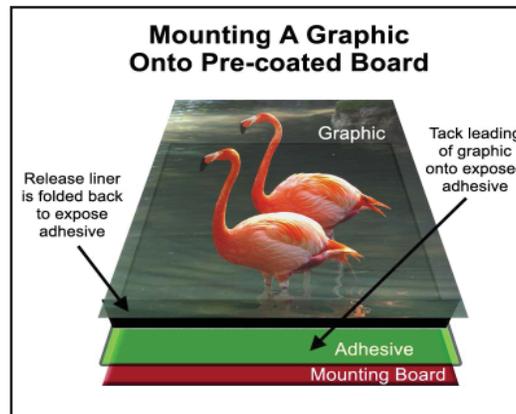
NOTE:
 Using a Tail Board behind the last production board (this can be the same board used as a Leader Board) is recommended. This is especially important when pre-coating foam board.

Mounting Graphics to Pre-Coated Boards

1. Adjust the rollers for proper pressure.
2. Expose the adhesive on the board by folding back approximately 1" (25mm) of the release liner.
3. Using the folded-back release liner as a temporary support bridge, align the graphic image onto the board and proceed to "tack" (stick or press down) the leading edge of the graphic onto the exposed adhesive.
4. Run a Leader Board of the same thickness as the mounting board through the rollers so that the back edge of the Leader Board is at the Nip area of the machine.

Mounting Applications

Mounting Graphics to Pre-Coated Boards cont.



5. Square the mounting board with the tacked graphic against the edge of the Leader Board and drape the graphic over the top roller.
6. Run the mounting board/adhesive/graphic image through the rollers while simultaneously pulling the release liner away from and off of the board.

Laminating Applications

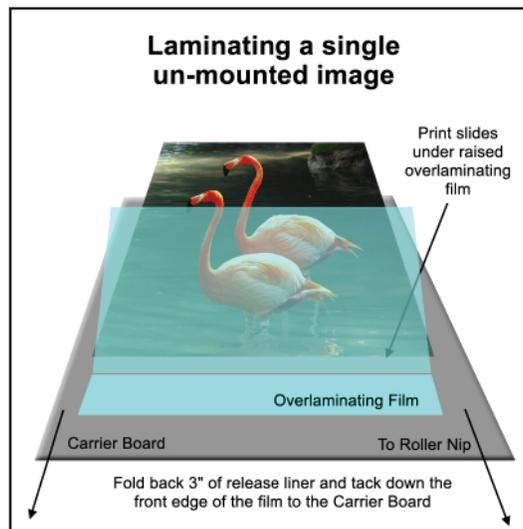
Selecting Pressure Sensitive Overlaminating Film

Select an appropriate pressure sensitive overlaminating film for the surface of the graphic image based on aesthetics and the conditions under which it will be displayed. Drytac offers a wide variety of films to match your specific output and application. Consult the Drytac Product Reference Guide for descriptions of available overlaminating films or visit www.drytac.com.

To prevent adhesives from sticking to the rollers and to provide a reusable, standard working surface during lamination, the use of a silicone-coated board (also known as a "Carrier Board") is highly recommended. For instructions, refer to page 15.

Laminating Single Unmounted Image

Before processing, make sure that the graphic image is clean and free of dust or specks of lint. An anti-static cloth or anti-static wisk is recommended for cleaning the graphic prior to lamination.



1. Raise the top roller and insert the Carrier Board. Set roller pressure as previously described.
2. Pre-cut a sheet of overlaminating film from the roll. The sheet should be larger than the graphic image by approximately 1" (25mm) on the bottom and each side and 2" (50mm) on the top.
3. Peel and fold back approximately 2" (50mm) of release liner from the top edge of the overlaminating film. Tack the film on the Carrier Board by pressing the exposed section of film onto the leading edge of the board.
4. Advance the Carrier Board into the machine using the Foot Pedal. Stop before the edge of the overlaminating film reaches the rollers.

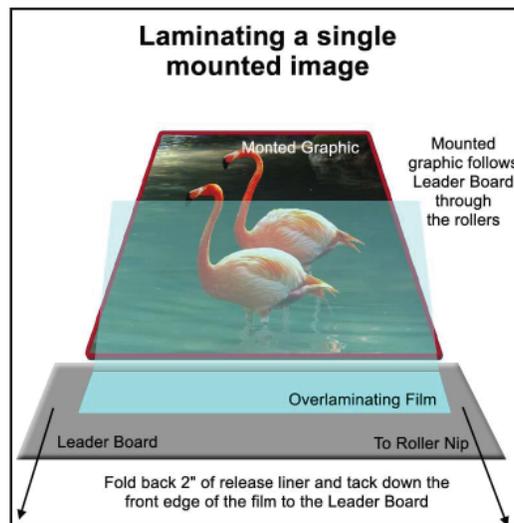
Laminating Applications

Laminating Single Unmounted Image cont.

5. Lift up the remainder of the overlaminating film (which is still protected by the release liner) and slide the graphic image face underneath it. Stop before it makes contact with the exposed part of the adhesive. It is important to keep the film adhesive away from the graphic until the whole assembly is under pressure and traveling through the machine.
6. Lay the overlaminating film over the top of the upper roller. While holding up the edge of the peeled back release liner with one hand, start the rollers and apply the overlaminating film to the surface of the graphic. Pull up and away on the release liner as your graphic travels through the machine. Ensure that the release liner does not reach the point where the graphic makes contact with the top roller. Complete this step with a consistent motion and do not stop until the entire graphic has passed through the rollers.
7. The laminated graphic can now be easily removed from the silicone-coated Carrier Board for trimming and mounting.

Laminating Single Mounted Image

Before processing, make sure that the graphic image is clean and free of dust or specks of lint. An anti-static cloth or anti-static wisk is recommended for cleaning the graphic prior to lamination.



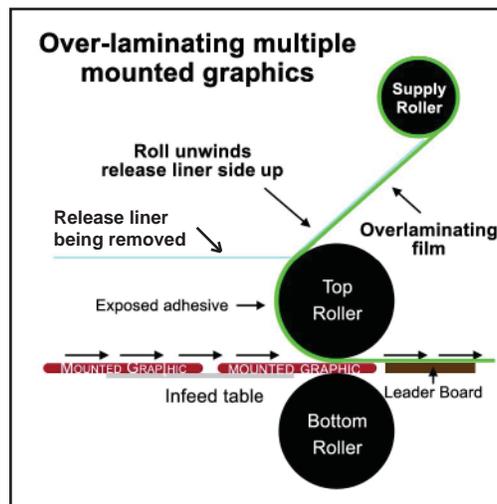
1. Raise the top roller and insert the mounted graphic image into the roller Nip area. Adjust the roller pressure.
2. Pre-cut a sheet of overlaminating film from the roll. The sheet should be larger than the graphic image by approximately 0.25" (6mm) on the bottom and each side and 3" (75mm) longer on the top.
3. Peel and fold back approximately 2" (50mm) of release liner, exposing the adhesive of the overlaminating film.
4. Tack approximately 1.5" (38mm) of the film to the Leader Board but not over the mounted graphic.

Laminating Applications

Laminating Single Mounted Image cont.

5. Insert the Leader Board with the overlaminating film tacked to it into the Nip area. Advance the Leader Board and the film through the Nip area until the upper roller securely pinches the film. The trailing edge of the Leader Board should be at the pinch point of the rollers.
6. Lay the overlaminating film over the top of the upper roller. Ensure that the folded release liner is easily accessible.
7. Slide the mounted graphic image into the Nip area and allow its edge to make contact with the edge of the Leader Board.
8. While holding up the folded edge of the peeled back release liner with one hand, start the rollers and apply the overlaminating film to the surface of the graphic image. Pull up and away on the release liner as the graphic advances to ensure that the liner does not reach the Nip area. Use a consistent motion and do not stop until the entire graphic has passed through the rollers. The laminated graphic can now be easily removed from the silicone-coated Carrier Board for trimming and mounting.
9. Trim excess overlaminating film from the edges of the graphic.

Laminating Multiple Mounted Images



1. For higher volume jobs, select a roll of overlaminating film slightly wider than the mounted graphic images to be laminated.
2. Install the overlaminating film on the Supply Shaft so that the material can be pulled toward the operator from the bottom of the roll with the release liner side facing up.
3. Adjust the rollers for proper pressure.
4. Pull several inches of the overlaminating film off of the roll. Separate approximately 3-4" (76-102mm) of the overlaminating film from its release liner and drape it onto the Infeed Table in front of the rollers. Keep the release liner away from the film while pushing the Leader Board and film into the Nip area.

Laminating Applications

Laminating Multiple Mounted Images cont.

5. Position the first mounted graphic image to be laminated against the back of the Leader Board. Check for proper alignment and feed through the rollers of the machine (in "Auto" mode or with the Foot Pedal). Feed one graphic image in after another, as needed.
6. Carefully separate graphics with a razor blade or utility knife. Trim off the excess film.

Using a Leader Board

A Leader Board is recommended when mounting and laminating with the JetMounter™ JM18, JM26 and JM34 because it helps set proper pressure prior to the application. It is first fed into the roller Nip area, then followed by the actual mounting/laminating material to be processed. The Leader Board should be the same width and thickness as the production mounting board and about 6-8" (152-203mm) long.

Make a Tail Board to be used behind the last production board. The Tail Board is recommended for use when mounting to foam board.

Carrier Boards and Preparing Mounting Board

When processing unmounted graphic images, it is recommended that a silicone-coated board be used to prevent adhesives from sticking to the rollers. This board is known as a Carrier Board and provides a reusable, standard working surface. The Carrier Board can be used when laminating a graphic image prior to it being mounted to a mounting board/substrate. To accommodate various artwork formats, it is common practice for finishing professionals to stock Carrier Boards in several sizes.

Making a Carrier Board is similar to pre-coating a mounting board. When the mounting board is coated with adhesive, the silicone-coated release liner provides a slick, non-stick surface on which to laminate graphic images. Be sure to use a "self-wound" adhesive with a silicone-treated liner for this purpose. Once the most appropriate adhesive/mounting board combination has been selected for the application, the board must be properly prepared before coating. Although often overlooked, this can be the most important step when mounting a graphic image for display.

- *Foam board* (e.g., FomeCor®, GatorBoard®, HartBoard®, etc.) - These substrates have porous surfaces and often contain particles that can spoil an otherwise perfect mount. Clay-coated surfaces such as FomeCor® or Foam-X® should be wiped with a TacCloth™ to remove dust particles.
- *Mat board/Mill board* - To prepare these boards for mounting, use an anti-static wisk to remove dust particles and other debris.
- *Hardboard* (e.g., Medium Density Fiberboard (MDF), Masonite®, etc.) - To prepare these substrates for mounting, wipe the surface with a TacCloth™. If the surface contains irregularities, use sandpaper to remove them and then wipe the surface with a TacCloth™.

NOTE:

Due to the highly absorbent nature of these substrates, DO NOT wipe down their surfaces with a moist rag.

Care & Maintenance

CAUTION:

Unplug the equipment before performing any service or maintenance.

- For optimum operational efficiency, clean the machine regularly with a soft cloth and a neutral mixture of soap and water. To remove heavy dirt and adhesive residue, use 99% isopropyl alcohol.
- Do not use thinner or a metal brush to clean the rollers.
- To extend the life of the machine, keep the rollers separated when the machine is not in use.
- There is one replaceable fuse on the machine located on the rear panel in the power cord receptacle. The fuse is 5x20mm, 1 Amp. DO NOT use any other fuse as it may endanger the operator and/or machine and void the warranty.
- Lubricate the drive chain located inside the right end case every six months, with a premium brand chain lubricant. Disconnect power before lubricating the chain. No other parts require lubrication.

Appendix

Appendix A - Replacement Parts for the JetMounter™ JM18, JM26 and JM34

Replacement Parts	Part Number
Height Adjustment Knob	JMS-01
Motor Direction Switch	JMS-04
Auto/Foot Switch	JMS-05
On/Off Switch	JMS-09
Power Cord	JMS-10 JMS-10E (Europe) JMS-10UK (UK)
Photocells	JMS12-01
Core Adapter	JMS12-03
Motor	JMS12-05A
Chain and Sprocket Set	JMS12-05B
Height Adjustment Mechanism	JMS12-06
Main Control Board	JMS12-08
Foot Pedal	JMS456-02
Speed Control Knob	JMS456-08
JM18 Silicone Roller	JMS1-01
JM18 Supply Shaft	JMS1-02
JM26 Silicone Roller	JMS2-01
JM26 Supply Shaft	JMS2-02
JM34 Silicone Roller	JMS3-01
JM34 Supply Shaft	JMS3-02

The list above does not include all service parts available. For further parts or service information, contact the Drytac Technical Services department.