



OPERATING MANUAL Gfp 220C



Please read this manual carefully before operating!

Unpacking, assembly, and operating videos are available at

www.gfpartnersllc.com

Do NOT make changes to or reproduce this manual without express written consent from Gfp

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1. Introduction

Thank you for choosing the Gfp 220C laminator. It has been designed and manufactured to provide years of continuous service. Please read this manual thoroughly before operating. Please inspect the box and the laminator for shipping damage. Damage should be brought to the attention of the delivering carrier immediately.

We reserve the right to make changes to this publication and to the products described in it without notice. The details given in this manual are based on the most recent information available to us. They may be subject to change in the future. We retain the right to make changes to the construction or the design of our products without accepting any responsibility for modifying earlier versions.

WARNING! Any unauthorized changes or modifications to this unit without our prior written approval will void the user's warranty and will transfer health and safety obligations to the end user.






CAUTION! Please pay attention to all passages with these symbols. This information is vital to preventing user injury and/or damage to the unit. Failure to follow this information could void the user's warranties and transfer all safety obligations to the user.

2. Important Safety Instructions

In this operating manual you will find important safety messages regarding the product.

Read these instructions carefully, failure to comply with the following safety procedures could result in serious injury.

-  **WARNING** Do not attempt to service or repair the laminator. Only authorized maintenance and service technicians should make repairs.
-  **WARNING** Do not connect the laminator to an electrical supply or attempt to operate the laminator until you have completely read these instructions. Maintain these instructions in a convenient location for future reference.
-  **WARNING** To guard against injury, the following safety precautions must be observed in the installation and use of the laminator

3. Installation Safeguards

- Shipping damage should be brought to the immediate attention of the delivering carrier.
- Avoid locating the laminator near sources of heat or cold. Avoid locating the laminator in the direct path of forced, heated or cooled air.
- The receptacle must be located near the equipment and easily accessible.



- Connect the attachment plug provided with the laminator to a suitably grounded outlet only. This machine must have reliable earth ground to ensure the safety of the machine during operation.



- Contact an electrician should the attachment plug provided with the laminator not match the receptacles at your location.



- Ensure that the voltages of the power supply you are using match the rated working voltages before operations. Do not use incorrect power supply.



- Do not use damaged wires or sockets. If abnormal conditions occur, switch off the power supply first.



- Only a licensed electrician should install wiring and outlet for the laminator.
- Do not defeat or remove electrical and mechanical safety equipment such as interlocks, shields photo eyes or guards.

4. Regulatory Compliance Statements

cTUVus Certification



This test mark, also referred to as the "cTUVus mark", serves as proof of compliance with US national standards from UL adopted by OSHA and the Canadian national standards of CSA adopted by the Standards Council of Canada (SCC). US Authorities having Jurisdiction (AHJs) and Provincial Regulators across Canada recognize the cTUVus mark as proof of product compliance to published national standards and code requirements. The cTUVus mark is officially recognized as an equivalent and direct replacement of the UL and CSA marks.

Federal Communications Commission (FCC) Compliance Statement



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

CAN ICES-3(B)/NMB-3(B)**Industry Canada Emission Compliance Statement**

This Class B digital apparatus complies with Canadian, CAN ICES-3(B)/NMB-3(B), interference-causing equipment regulation.

Changes or modifications made to this device that are not expressly approved by Gfp, may void the user's authority granted by the FCC and/or by Industry Canada to operate the equipment

5. General Safeguards

- Keep hands, long hair, loose clothing, and articles such as neckties away from rollers to avoid entanglement and entrapment. The rollers have pinch points that can trap body parts or clothing and cause serious injury.
- Do not use the machine for purposes other than lamination and mounting, otherwise damage to the machine or accidents may occur.
- Keep out of reach of children.
- Keep flammable and wet objects away from the machine.
- Do not use flammable sprays or materials when cleaning the machine.
- Do not leave the machine unattended during operations.
- Do not put burrs, sharp blades or rigid materials in between the two rubber rollers.
- Do not attempt to laminate items that exceed total recommended material thickness of the unit.
- Do not place foreign objects inside the machine.
- Do not cut adhesive films directly on the surface of the rollers to avoid damaging the rubber coating.
- Shut down the machine after laminating to avoid misusing this machine by others.
- Shut down the power before moving the machine.
- Note the locations of wheels while moving or operating this machine to avoid injuries to your feet.



- Disconnect from the power supply before repair or maintenance.



- Disconnect from the power supply when the machine is not in use for a long time.
- When the machine lies idle for a long period of time, raise the top rubber roller to avoid the distortion of the rubber surface.
- Perform only the routine maintenance procedures referred to in these instructions.
- If film or media is stuck on the roller(s), use a hair dryer on a low setting to soften the adhesive before you attempt to remove the film/media.

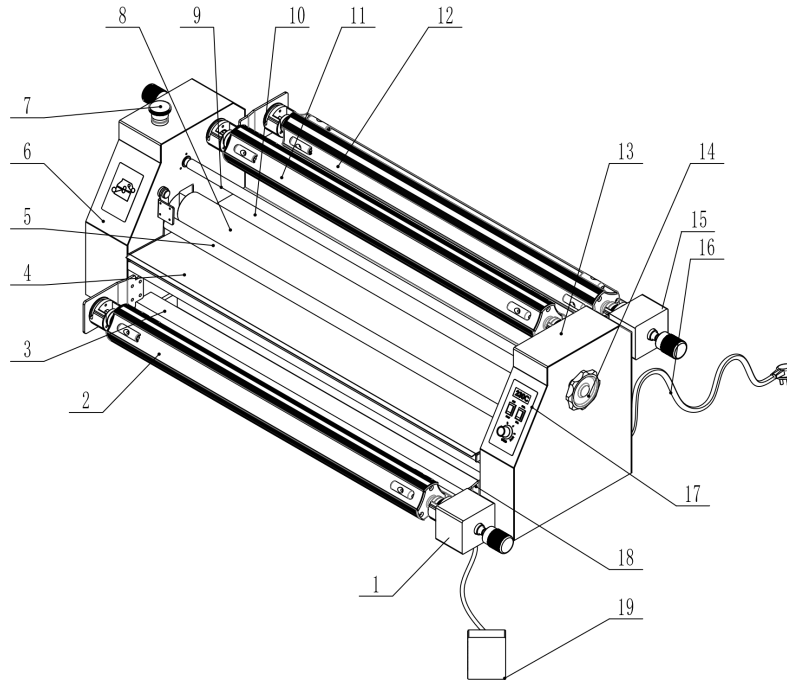
6. Operating Conditions

- Place machine on level surface
- Environment requirements :
- Ambient temperature: 50° F - 104° F
- Humidity : 30%—80% ; ideal humidity : 55%
- Due to the static on film rolls, you should try to keep the environment clean.
- Provide enough space around the machine to ensure safe and effective operation.
- Do not directly cut the film on the surface of the rubber rollers to avoid damage to the rollers.
- Do not put burrs, sharp knives or extra thick and hard materials in between the rollers. Do not leave objects like tools, rulers, knives, etc. on the working panels or the side cabinets to avoid their being rolled into the machine accidentally and damaging the rollers.
- For repairs and replacements, please contact your local distributor. Unauthorized repairs and dismantling will affect future maintenance of the machine.
- The machine can laminate continuously objects less than ½" thick.
- The operator should be present while machine is in operation.



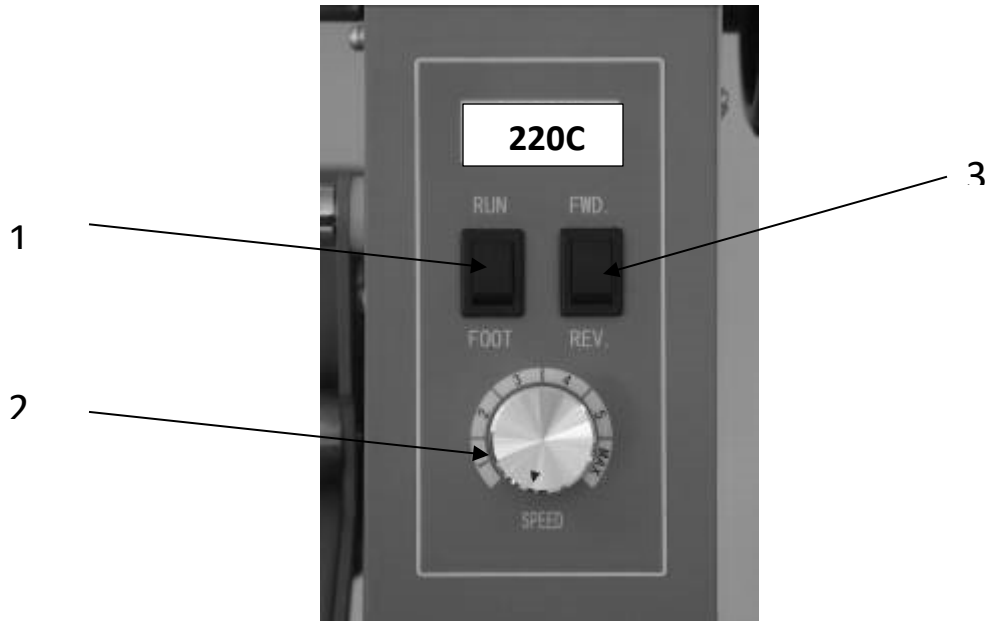
***Warning: Do not keep the machines in direct sunshine or near it.
Do not keep the machine in dusty place or places with strong vibrations.***

7. System Components



- | | |
|----------------------------------|-----------------------------------|
| 1. Lower brake assembly | 11. Liner rewind |
| 2. Lower unwind | 12. Upper supply shaft |
| 3. Front support bar | 13. Right side cabinet |
| 4. Feed tray | 14. Roller pressure adjustment |
| 5. Nip safety guard | 15. Upper brake assembly |
| 6. Left side cabinet | 16. Power cord |
| 7. Emergency stop switch | 17. Control panel |
| 8. Top nip roller | 18. Bottom roller support bracket |
| 9. Roller pressure linkage shaft | 19. Foot switch |
| 10. Rear exit deck | |

8. Control Panel



1. Run/ foot pedal switch
2. Speed Adjustment
3. Forward/ reverse switch

Note: The machine does not have continuous reverse. Reverse can only operate using the foot pedal.

9. Packing List

Remove all parts from shipping create and boxes. Inspect parts and the machine carefully. Any missing parts should be reported to the shipper upon receipt of shipment.

Main Machine Crate			
Part	Quantity	Part	Quantity
Main Machine	1	Hex Screw 8mm x 80	8
Rewind Shaft	1	Hex Screw 5mm x 12	16
Support brackets for shafts	4	Plain washer #8	8
Supply shafts	2	Plain washer #5	16
Brake assembly	2	Lock washer #8	8
Allen wrench 6mm	1	Lock washer #5	16
Allen wrench 5mm	1	Zippy knife	1
Allen wrench 4mm	1	Foot switch	1
Allen wrench 3mm	1	Operator manual	1

10. Installation

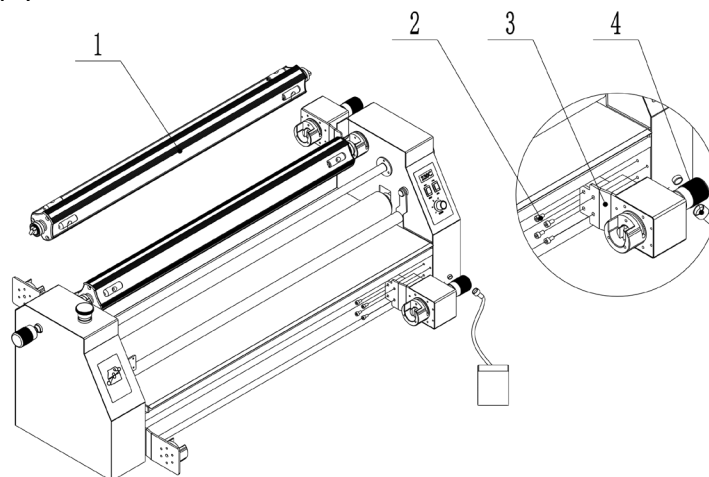
Unbox machine.

- A. Carefully open laminator box
- B. With two people carefully lift machine from the bottom and place on a table able to support 95lbs.



Attach bottom supply brackets and insert supply shaft.

- A. Attach bottom supply brackets to each side frame using 5mmx12 bolts.
- B. Insert the supply shaft into the brackets.

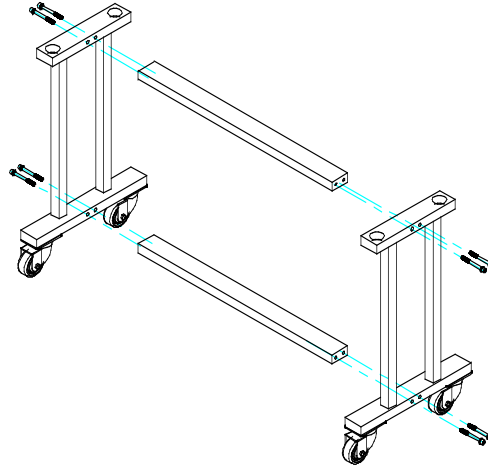


1. Upper supply shaft
2. 5mm x12 hex screws

3. Supply shaft bracket
4. Tension adjustment

Assemble optional Stand.

- A. Bolt cross members to stand legs using 8 – 8mmx80 bolts.
- B. Each bolt takes a lock washer and flat washer. Flat washer against the stand.
- C. Start all bolts before tightening.
- D. Lift Laminator onto stand.



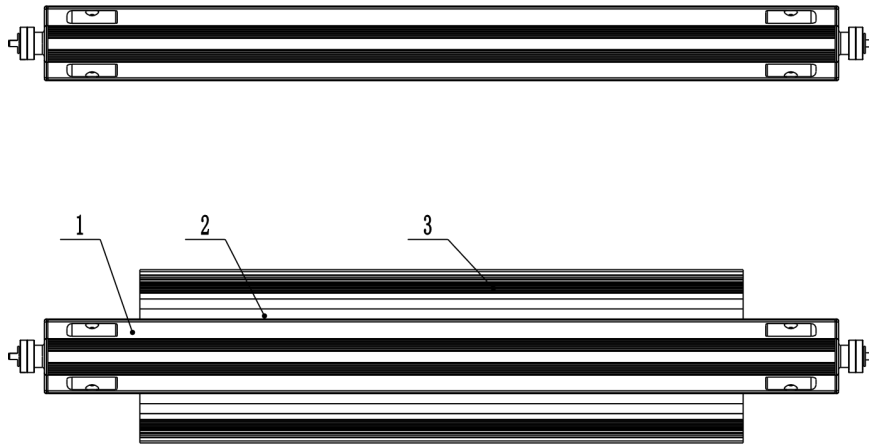
Additional Installation Items.

- A. Plug foot pedal into rear panel near power cord.
- B. Check drive chains for tightness.
- C. Check all electrical connections and input power. Test for proper operation.

11. Operation

Loading Film.

- A. Turn lock collars and remove upper supply shaft from machine.
- B. Slide a new roll of material onto the supply shaft.
- C. Position the material roll in the middle of the shaft using a tape measure.
- D. Adjust the brake tension by turning the adjustment knob. (Note: the brake tension should not prevent the roll from turning.)



1. Supply shaft 2. Film core 3. Substrate

Installing Take up Shaft.

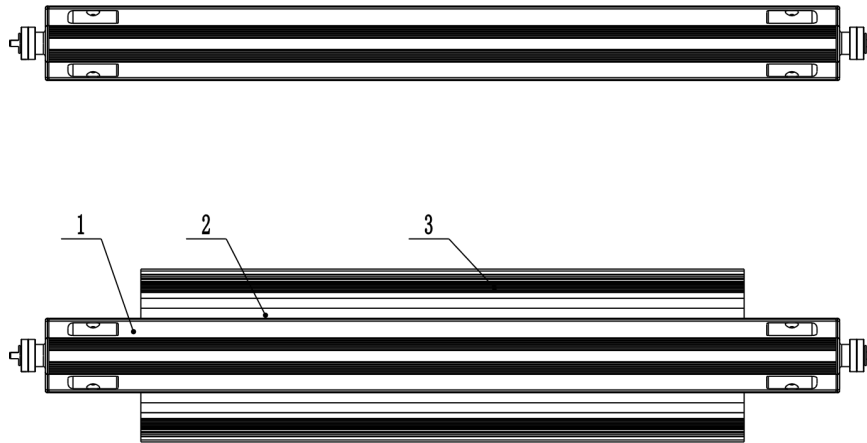
- A. Turn the lock collars and remove the rewind shaft from the machine.
- B. Slide cardboard tube onto the rewind shaft.
- C. Adjust the brake tension by turning the adjustment knob. (Note: the brake tension should not prevent the roll from turning.)



1. Rewind shaft 2. Cardboard rewind

Loading bottom media or Kraft paper.

- A. Turn the lock collars and remove the lower supply shaft from machine.
- B. Slide a new roll of material onto the supply shaft.
- C. Position the material roll in the middle of the shaft using a tape measure.
- D. Adjust the brake tension by turning the adjustment knob. (Note: the brake tension should not prevent the roll from turning.)



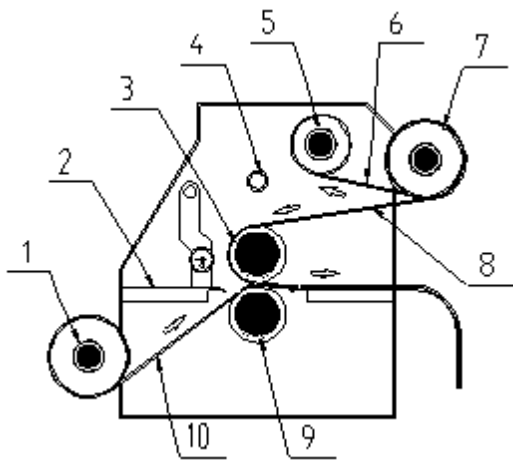
1. Supply shaft 2. Film core 3. Substrate

Threading Film

- A. Place cold film roll on top supply shaft and mounting adhesive roll on the bottom supply shaft.
- B. Pull the film with the paper liner by hand, making sure there is proper resistance. The resistance can be adjusted with the adjusting tension knob.
- C. Turn the pressure-adjusting hand-wheel to raise the upper rubber roller.
- D. Pass the film through the two rollers and lay on the rear working panel. Pull the film flat then turn the pressure-adjusting hand-wheel to let down the upper rubber roller.
- E. Separate the paper liner from the film web at an appropriate place, pull up the liner and tape it to the paper tube on the top rewind tube.
- F. NOTE: Slide film cutter between the paper liner and film to cut liner only. Be careful not to cut the top roller.
- G. Use foot pedal to advance the film web until the adhesive is exposed on the front of the top nip roller.

- H. Raise the feed tray assembly.
- I. Bring the bottom mounting adhesive or media web up and tack to the exposed film web adhesive.
- J. Lower the feed tray assembly.
- K. Use foot pedal to advance both webs until cleared of the nip rollers.

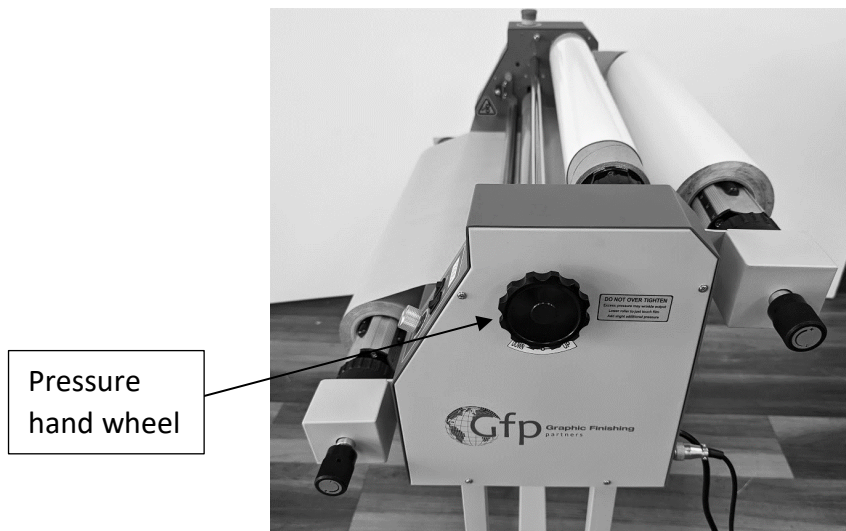
Note: The film should be wrinkleless and tight to the surface of the heat roller. If wrinkles appear in the film web, adjust the brake tension knob.



1. Bottom Supply roll
2. Feed Tray
3. Top Nip roller
4. Pressure linkage shaft
5. Liner Rewind
6. Liner
7. Film supply roll
8. Film web
9. Bottom Nip roller
10. Media or Kraft paper web

Setting Roller pressure

- A. When the pressure-adjusting hand-wheel is turned clockwise, the top rubber roller comes down and the pressure will increase.
- B. With a counterclockwise turn, the top rubber roller goes up and the pressure will decrease.
- C. Too much nip pressure will wrinkle the output. Bring the nip roller down to just touch the film, then a slight increase in pressure
- D. When using the 220C use just enough pressure to smoothly apply the film.



12. Laminating

Single sheets using sled.

- A. Load a roll of laminating film on the top roller (see loading film section 11)
- B. Turn the pressure-adjusting hand-wheel to raise the upper roller.
- C. Select a piece of Gatorboard or other PVC mounting board the width of the film web to use as a sled under the print to be laminated
- D. Insert the sled between the nip rollers and lower the top roller until it touches the sled
- E. Reverse the motor to back the sled out of the rollers
- F. Pass the film web under the idler bar and down in front of the roller
- G. Separate 1" of the paper liner from the film web, attach film web to a leader board the width of the film roll and insert leader board into the rollers
- H. Use foot pedal to advance the film web halfway through the roller and stop
- I. Position print on the sled
- J. Depress the foot switch and run sled through
- K. Insert another leader board or next sled right behind the first sled

Multiple Sheets using Kraft paper from a roll.

- A. Load a roll of laminating film on the top unwind supply shaft(see Loading film section 11)
- B. Turn the pressure-adjusting hand-wheel to raise the upper roller.
- C. Select a piece of Gatorboard or other PVC mounting board the width of the film web to use as a sled under the print to be laminated.
- D. Insert the sled between the nip rollers and lower the top roller until it touches the sled.
- E. Reverse the motor to back the sled out of the rollers.
- F. Pass the film web under the idler bar and down in front of the roller.
- G. Separate 1" of the paper liner from the film web, attach film web to a leader board the width of the film roll and insert leader board into the rollers
- H. Use foot pedal to advance the film web halfway through the roller and stop.
- I. Position print on the sled
- J. Depress the foot switch and run sled through.
- K. Insert another leader board or next sled right behind the first sled.

Media on a roll

- A. Load a roll of laminating film on the top unwind supply shaft(see Loading film section 11)
- B. Load a roll of printed media on the bottom, front unwind Supply shaft, unwinding from the TOP of the roll
- C. Thread both rolls through machine (see Threading film section 11)
- D. Press RUN

13. Mounting

Pre-coating mounting boards

- A. Load a roll of mounting adhesive on the top roller (see loading film section 11)
- B. Insert leader board the same thickness as the board to be coated and the width of the mounting adhesive, between the nip rollers and lower the top roller until it touches the board.
- C. Pull mounting adhesive down over the idler bar and over the front of nip roller and adhere to the leader board.
- D. Run leader board halfway through the roller and stop.
- E. Insert mounting board to be coated and depress foot switch.
- F. After the last board, insert leader board to keep adhesive from contacting the rollers.

Mounting print to pre-coated board

- A. Pull back and fold down 1" of the liner from the pre-coated mounting board.
- B. Adhere leading edge of the print to the exposed adhesive on the board.
- C. Insert leading 1" of the board into the nip rollers.
- D. Lower the roller.
- E. Lay print over top nip roller
- F. Hold release liner on board with one hand and apply pressure to print as it comes over the top roller.
- G. Depress the foot switch to run the board and print through the rollers.

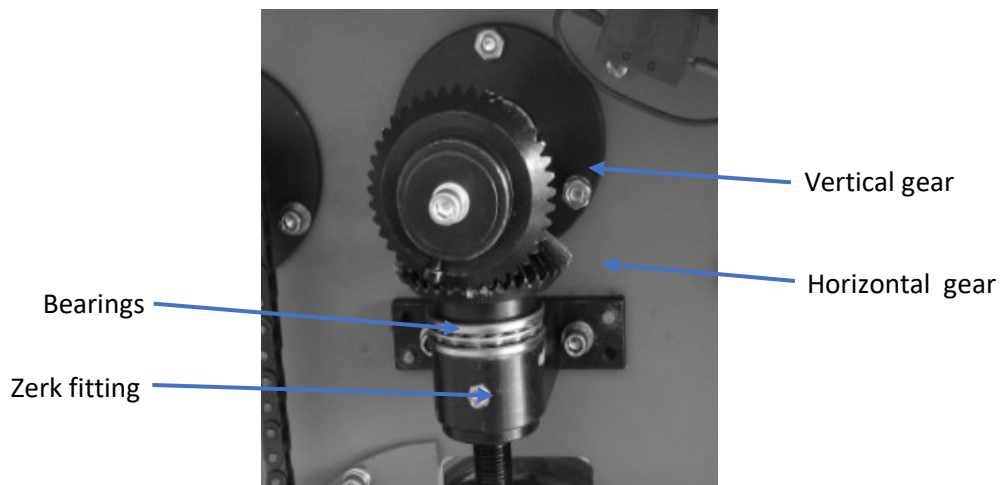
14. General Maintenance

Your Gfp laminator needs very little maintenance on a yearly basis. Turn off and unplug your laminator before opening the cabinets. Suggested maintenance:

Rollers: Clean the rollers with a damp, lint-free cloth daily or before each job. You can use Isopropyl alcohol if necessary to remove any adhesive build up. If film or media is stuck on the roller(s), use a hair dryer on a low setting to soften the adhesive before you attempt to remove the film/media.

NOTE: Do not hold the dryer in one spot too long as you can damage the rollers.

Lift Mechanism and Gears: Every two (2) years, apply a small amount of grease to the horizontal and vertical gears of the lift mechanism, and the screw shaft. If there is a Zerk fitting on the housing, use a grease gun to squirt a small amount of grease into the bearings on both sides of the machine, see below:



Drive Chains and Sprockets: Every two (2) years, apply a small amount of lubricating oil, such as 3-IN-ONE, to the chains and sprockets. Wipe up any excess oil that drips into the cabinet.

NOTE: Do not put grease on the chains as it cannot get between the rollers and the roller supports.

15. Troubleshooting

Problems	Causes	Solutions
Machine does not turn on	<ol style="list-style-type: none"> 1. No power supply 2. Main power switch is OFF 3. Circuit breaker has tripped 4. Blown main power fuse 	<ol style="list-style-type: none"> 1. Plug in power cord 2. Place power switch to ON 3. Reset circuit breaker 4. Replace fuse on rear panel
Rollers do not turn after "Run" button is pressed	<ol style="list-style-type: none"> 1. Emergency switch is engaged 2. Excess roller nip pressure 3. Motor has failed 	<ol style="list-style-type: none"> 1. Disengage emergency switch 2. Reduce the nip pressure of the rubber rollers 3. Replace motor
Poor film adhesion or cloudy prints	<ol style="list-style-type: none"> 1. Nip roller pressure to low. 2. Dust on the surface of the print 	<ol style="list-style-type: none"> 1. Increase nip roller pressure 2. Clean print surface before lamination
Poor film adhesion on one side	<ol style="list-style-type: none"> 1. Nip roller pressure on the two sides is not even 	<ol style="list-style-type: none"> 1. See "Roller gap adjustment"
Lamination output is curled	<ol style="list-style-type: none"> 1. Sheet is curled upward 2. Sheet is curled downward 	<ol style="list-style-type: none"> 1. Reduce top roll tension 2. Reduce bottom roll tension
Film supply roll gets loose during operation	<ol style="list-style-type: none"> 1. Not enough brake tension on supply roll 	<ol style="list-style-type: none"> 1. Increase brake tension on supply roll
Backing paper gets loose when being rolled up	<ol style="list-style-type: none"> 1. Not enough brake tension on the backing paper rewind roller 	<ol style="list-style-type: none"> 1. Increase brake tension on backing paper rewind roller
Wrinkles in film both on top and bottom	<ol style="list-style-type: none"> 1. Too much nip roller pressure 	<ol style="list-style-type: none"> 1. Reduce nip pressure with hand wheel

16. Specifications

Description	220 C
Laminating Width	20"
Roller Diameter	2.5"
Roller Gap	1/2"
Laminating Speed	11.5 Ft/min
Unwinds	Top and bottom Auto Grip
Film core size	3"
Liner take up	Direct drive
Pressure adjustment	Single Hand wheel
Tension adjustment	Single Knob
Power Supply	110vac 50/60Hz
Power Consumption	38W/0.4A
Net weight Machine/Stand	95lbs/30lbs
Dimensions Machine on Stand	46"x22"x42"
Shipping weight Machine/Stand	109lbs/35lbs
Shipping dimensions machine	43"x23"x22"
Shipping dimensions stand	31"x19"x7"

17. Warranty

EQUIPMENT WARRANTY

May 2021

Graphic Finishing Partners, LLC warrants each new Gfp Laminator is free from defects in material and workmanship for a period of one (1) year from the date of installation. A machine which proves defective in materials or workmanship within the warranty period will be repaired or, at Gfp's option, replaced without charge. This warranty is extended only to the original purchaser.

This warranty is the only warranty made by Gfp and cannot be modified or amended. Gfp's sole and exclusive liability and the customer's sole and exclusive remedy under this warranty shall be, at Gfp's option, to repair or replace any such defective part or product. These remedies are only available if Gfp's examination of the product discloses to Gfp's satisfaction that such defects actually exist and were not caused by misuse, neglect, attempt to repair, unauthorized alteration or modification, incorrect line voltage, fire, accident, flood or other hazards.

The warranty made herein is in lieu of all other warranties, expressed or implied, including any warranty or merchantability or fitness for a particular purpose. Gfp will not be liable for personal damage or personal injury (unless primarily caused by its negligence), loss of profit, or other incidental or consequential damages arising out of the use or inability to use this equipment.

This warranty specifically does not cover damage to laminating rollers caused by knives, razor blades, or any sharp objects or abrasives, or failure caused by adhesives, or damage caused by lifting, tilting and/or any attempt to position the machine other than rolling on the installed castors or feet on even surfaces, or improper use of the machine. Warranty repair or replacement by Gfp or its authorized reseller(s) does not extend the warranty beyond the initial period from the date of installation. Unauthorized customer alterations

will void this warranty.

CORRESPONDENCE:

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