

PlastPress

POSITIVE PRESSURE⁺



INSTRUCTION MANUAL

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► 1 - INTRODUCTION

PLASTPRESS BIO-ART is a multi-application equipment that, due to its ease of use and handling, has become indispensable in laboratories and dental offices. There are many applications and new techniques are being developed every day, expanding the range of uses.

This manual contains all the necessary information about its operation. Please read it carefully to ensure the correct use of the machine and best performance.

Considering that the operational process of the product is similar for all applications, we describe the laminating technique in chapter 8 and then present each application, highlighting its particularities in chapter 9.

Note that there are several types of plates of different materials and thicknesses, which entails different laminating times. Therefore, the optimum laminating point is made by observation and this technique is described along with the operational process of the machine. The specification of the plate indicated for each application, as well as its ideal lamination point and finishing details are defined in the description of each application.

Finally, we recommend once again that you read this manual, as we would like you to make the most of your machine, taking advantage of all its advantages.

As the English say: "Make the most of it!".

► **2 - TECHNICAL SPECIFICATIONS**

Electrical characteristics

Voltage.....	127V 60 Hz ou 220V 50/60 Hz (+- 10%)
Heating resistance power.....	450 W
Average energy consumption.....	1,6 kWh per month (Using 10 times a day for 22 days)
Protection against electric shocks.....	Class 1 equipment

Pneumatic characteristics.

Minimum air pressure.....	3 bar (43,5 psi)
Maximum air pressure.....	8 bar (116 psi)
Connection type.....	Quick coupling for Ø 6 mm hose
Product dimensions (L x W x H).....	Without packaging: 265 x 235 x 270 mm With packaging: 310 x 270 x 310 mm
Weight.....	Without packaging: 7.5 kg With packaging: 8.5 kg

Environment

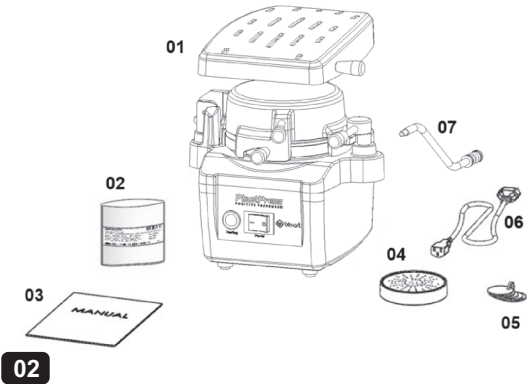
Place of use.....	Exclusive use indoors
Work temperature.....	5°C a 40°C
Relative humidity.....	5% a 90% (non-condensing)
Maximum operation altitude.....	3500 m
Pollution Degree.....	2
Protection Degree.....	IPX1 (splash protected)
Maximum Noise Level.....	80 db (In the position of use, 30 cm in front of the equipment)
Product and parts life.....	Undetermined

Plate dimensions

Thickness.....	Up to 6 mm
Round plate.....	Ø 134 mm
Square plate.....	From 120mm x 120mm à 130mm x 130mm

► **3 - PACKAGE CONTENTS**

- 01 - PlastPress 127V or 220V... 01 unit
- 02 - Glass grit..... 250g
- 03 - Instruction manual..... 01 unit
- 04 - Model holder..... 01 unit
- 05 - Plate display..... 01 unit
- 06 - Power cable..... 01 unit
- 07 - Hose extender..... 01 unit

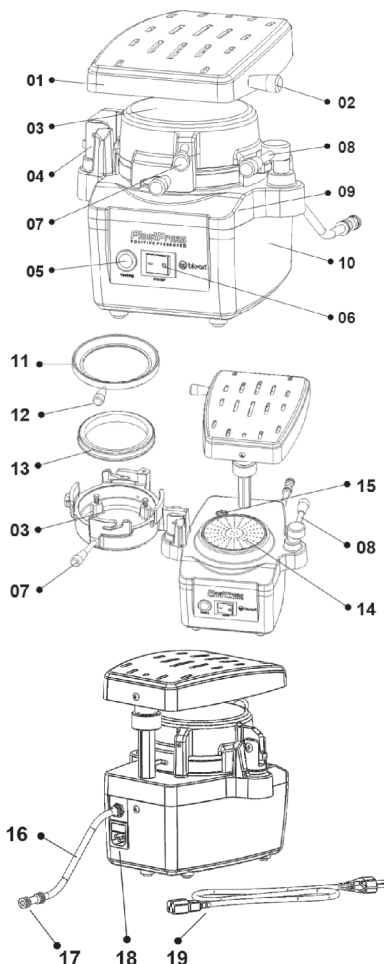


► 4 - SYMBOLS USED ON THE PRODUCT



► 5 - DESCRIPTION OF THE COMPONENTS

- 01 – Heating unit
- 02 – Heating unit knob
- 03 – Pressure chamber
- 04 – Pressure chamber rotary axis
- 05 – Resistance indicator LED
- 06 – Main switch
- 07 – Pressure chamber handle
- 08 – Pressure chamber lock knob
- 09 – Cabinet cover
- 10 – Cabinet base
- 11 – Locking ring
- 12 – Plate locking ring knob
- 13 – Compensation ring
- 14 – Model door with flat functions and bucket
- 15 – Air pin
- 16 – Hose extender with thermal protection
- 17 – Quick coupling for Ø6mm compressed air hose
- 18 – Power cable input connector with fuse holder
- 19 – Power cord



► 6 - IDENTIFICATION OF THE PRESSURE LAMINATOR

Product label



Packaging label



► 7 - INSTALLATION

7.1 - Carefully unpack the laminator and check that it has not suffered any damage during transport.

7.2 - The laminator must be installed in a ventilated place, free from humidity, excessive heat and supported on a flat and level rigid surface. Do not embed and do not place any material between the support base and the bottom of the machine, so that this area is free, allowing air circulation. Leave at least 20cm free between the entire perimeter of the laminator and another object, for its correct operation when its moving parts are extended/open.

7.3 - Check the voltage of the local network before connecting the laminator to the outlet, remember that this machine does not have dual voltage, so check the supply voltage (127V or 220V) before turning it on. Variations in supply voltage of up to $\pm 10\%$ of the rated voltage are allowed.

7.4 - Connect the power cable (19) to the input connector (18) located on the back of the equipment. Connect the laminator power cable (19) to the electrical outlet with a properly installed grounding system.

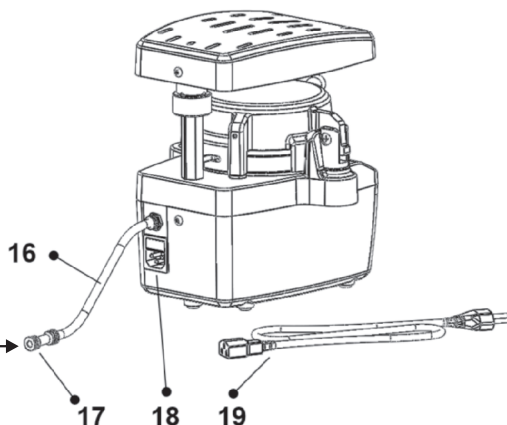
7.5 - Connect the compressed air network, with a pressure between 3 and 8 bar (43.5 to 116 psi), to the quick coupling (17) of the air hose extender (16) of the laminator. Do not let the compressed air hose bend and form creases. This will interrupt or decrease the airflow, impairing its operation. The compressed air network must have a pressure regulator with an oil filter in order to avoid damage to the laminator.



Attention:

The equipment must never be used without the hose extender (16).

**Quick coupling for connection
of the compressed air hose (17)
Hose: Ø6mm (External)
Pressure Between 3 and 8 bar (43.5 to
116 psi)**



Notes:

- The protective grounding for the laminator connection must comply with the NBR 5410 (Brazil) standard or the standard in force in the importing country.
- For protection against possible failures or short circuits, it is advisable to install a protection device (thermomagnetic bipolar circuit breaker) in the electrical network where the machine will be installed, to disconnect the two phases. Use a single-pole circuit breaker if the electrical network has only one phase.
- Do not use a tee connector or other similar type of plug to connect the laminator to the same outlet where another product is already installed.
- Do not obstruct the electrical outlet where the laminator is connected, thus allowing its quick disconnection if necessary.

► 8 - USE INSTRUCTIONS



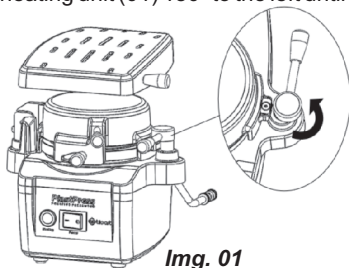
Attention:

If the machine is not used in accordance with the specifications described in this chapter, the protections and functions of the product may be impaired. For the operational process, follow the instructions below, orienting yourself by the numbers in the figures in chapter 5.

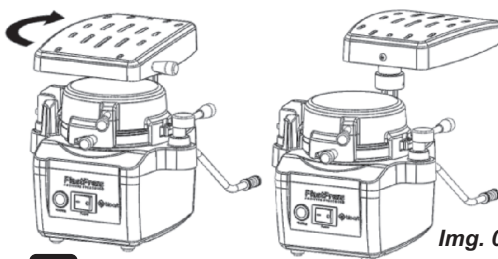
Positive pressure laminating process:

8.1 - To start the laminating process, the machine must have the power cable (19) connected to it and to the electrical outlet with the correct voltage. It should also have a 6 mm diameter compressed air hose connected to the quick coupling (17) of the hose extender (16) of the laminator. The main switch (06) must be off.

8.2 - Using the knob (08), release the pressure chamber by turning the lock 180° (Image 01) and turn the heating unit (01) 180° to the left until it is in the posterior position (Image 02).

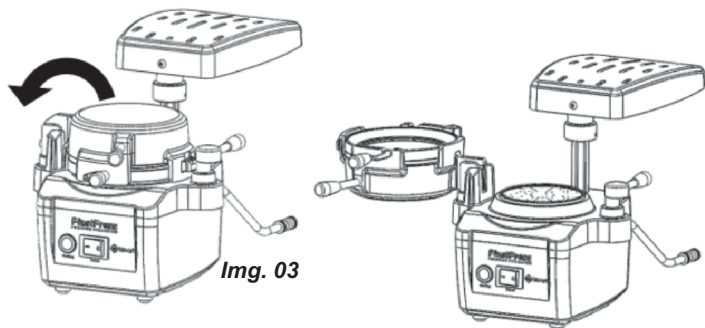


Img. 01

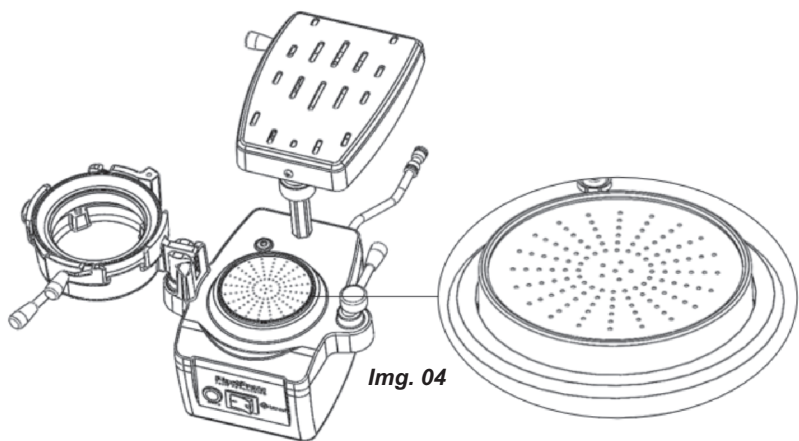


Img. 02

8.3 - Open the pressure chamber (03), pulling it up and to the left, through its knob (07), until it is positioned with its opening fully facing up (Image 03).



8.3 - Place the model on the model holder (14) and then place the assembly in the cavity on the cabinet cover (09) (Image 04).



The model holder can be positioned in two ways:

8.3.1 - Bucket position:

It allows easier removal of the plates, especially when the model has retentions or when using rigid plates and/or with thicknesses equal to or greater than 1.0 mm.

To use the model holder in this position, place the model on the bucket side of the model holder (14) and fill with glass grit covering the retaining surface up to the height of the model holder. Then insert the assembly into the cavity on the cabinet cover (09) (Images 05 and 06).



Img. 05



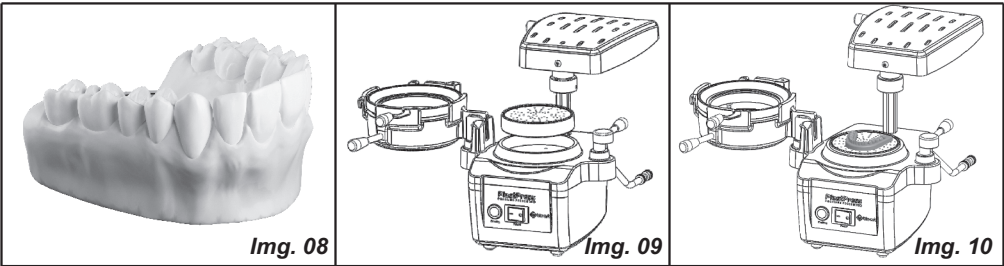
Img. 06

Note: During this operation, it is natural for the shots to come off the plate and fall onto the bench. To prevent this from happening, we suggest handling it inside a container (tray).

8.3.2 - Flat Position:

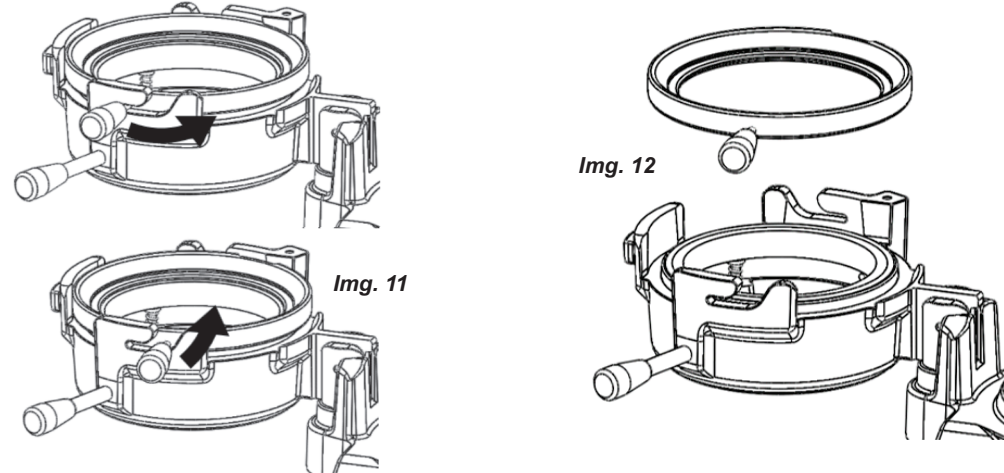
Allows a copy of the entire extent of the model. For a better result, cut out the model eliminating its retentions and obtaining a flat base. Do not use a very tall model in this process, in order to reduce plate distortion.

To use the flat side of the model holder (14), position the model holder in the cavity on the cabinet cover (09) of the machine with the mouth facing downwards. Then place the model on the model holder (Images 08, 09 and 10).

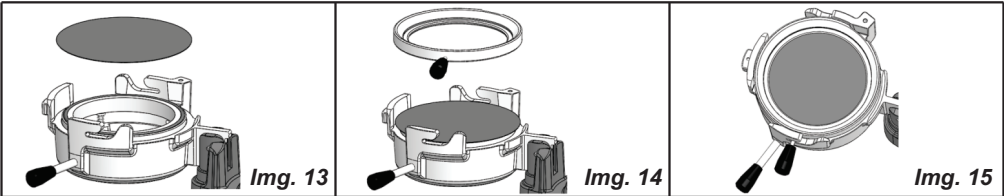


Important: Make sure that the cabinet cover (09) is clean and free of residues for the perfect accommodation of the model holder.

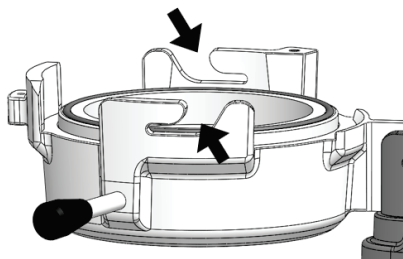
8.4 - To position the plate, move the knob (12) of the locking ring (11) to the right, counterclockwise, allowing the plate to be inserted. (Images 11 and 12).



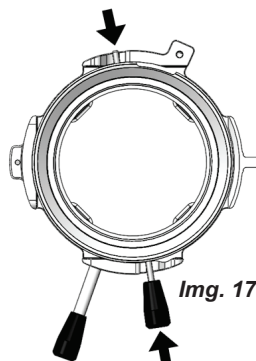
8.5 - Position the plate to be molded in the opening of the pressure chamber (03) on the compensation ring (13), so that it is well centered (Images 13, 14 and 15).



8.6 - Position the plate's locking ring (11) in the pressure chamber opening (03), observing that its knob (12) and diametrically opposite pin match the pressure chamber slots (Images 16 and 17).

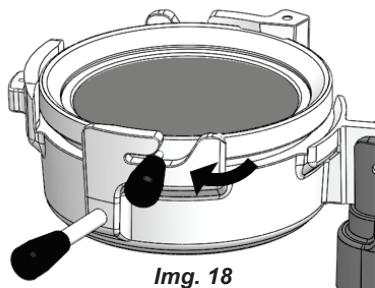


Img. 16



Img. 17

8.7 - Press the locking ring (11) against the pressure chamber (03) using its handle and pin as a guide and turn it to the left clockwise, locking the plate. (Image 18).



Img. 18



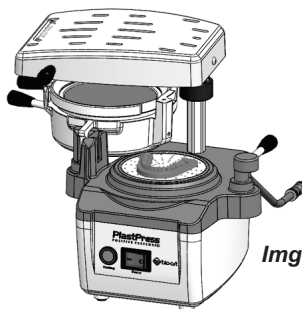
Attention:

It is important to hold with one hand, through the knob (07), the pressure chamber (03), in order to keep the set firm when the plate is locked.

8.8 - Move the pressure chamber (03) backwards until it reaches its end of course and partially return the heating unit (01) aligning it on the pressure chamber (03). In this position it will be possible to feel a "click" (Images 19 and 20).



Img. 19



Img. 20

8.9 - Turn on the main switch (06), thus starting the hob heating process. The blue light of the main switch (06) and the red light of the resistance indicator LED (05) will light up indicating that the equipment and the resistance will be on.



Attention:

If the pressure chamber (03) is not in the correct position for heating and its lock (08) is not in the unlocked position, the resistance indicator LED (05) will not light up and the hob will not be heated.

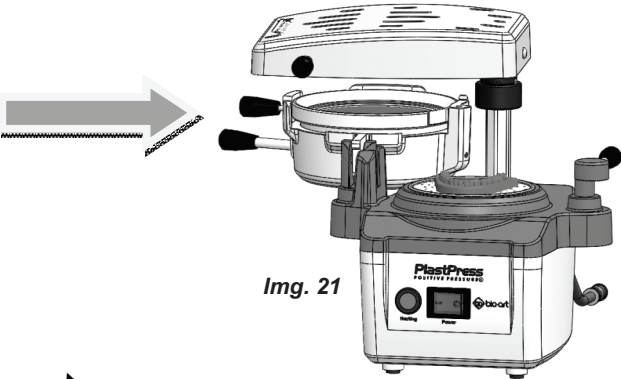
8.10 - Ideal lamination point:

Due to the existence of various types of plates (different materials and thicknesses), the ideal plasticization point is identified by changes in the plate and not by time. Therefore, it is the responsibility of each plate manufacturer to prescribe the most correct form of the ideal lamination point.

In general, the ideal point is observed by the color change (brightness) for more opaque plates, i.e., the plate will be shiny and transparent (e.g., milky plates) or by the plate flowing by 10 to 12mm, as indicated in the drawing below (e.g., crystal and soft plates).

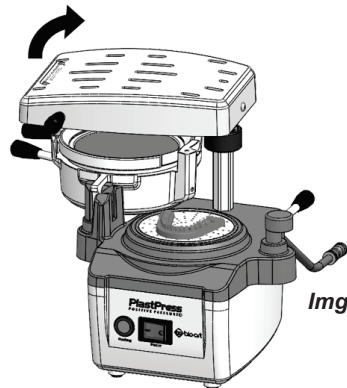


Observe the plate heating process described above through the gap between the heating unit (1) and the pressure chamber (03) (Image 21). In the first uses, if there is any doubt, move the heating unit (01) back slightly and, if there is a need for more heating, return it to the one above the pressure chamber (03) (Image 21).

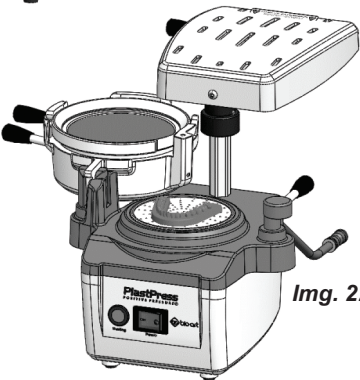


Img. 21

When reaching the ideal lamination point, move the heating unit (01) back to the posterior position (Images 22 and 22a). In the first uses, if in doubt, move the heating unit (01) slightly backwards and then back to the position above the pressure chamber (03), to facilitate the visualization of the heating level of the plate.



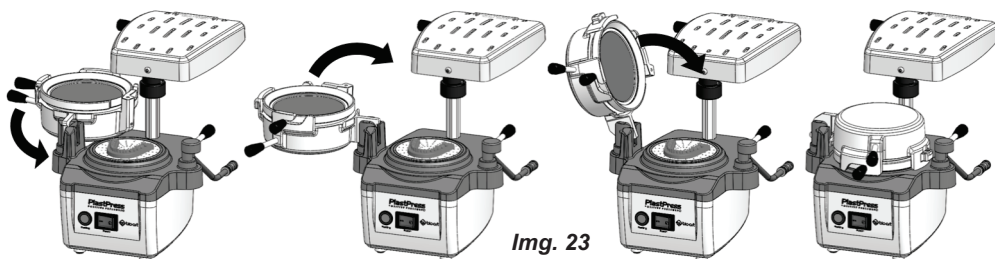
Img. 22



Img. 22a

Caution: Do not allow the plate to be heated beyond the time indicated by its manufacturer, avoiding its overheating, making it unusable and being necessary to clean the melted material inside the pressure chamber.

8.12 - Return the pressure chamber (03) to its closed position (turning it forward counterclockwise and then clockwise to the right). At this time. The resistance indicator LED (05) should go off (Figure 23).



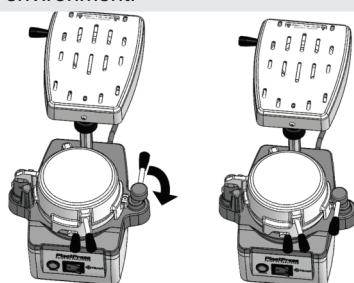
Img. 23

8.13 - Lock the pressure chamber (03) in its position by turning its lock knob (08) fully to the left, clockwise. If locking is difficult, it is because the plate locking ring (11) and/or the pressure chamber (03) are out of their correct position (Image 24).



Attention:

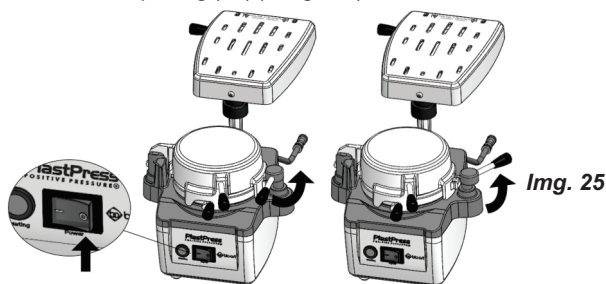
Only activate the pressure chamber lock knob (08) when the pressure chamber (03) is correctly positioned in the closed position, thus avoiding the escape of compressed air directly into the environment.



Img. 24

8.15 - Simultaneously with the locking of the pressure chamber (03), the activation of the air valve will occur (with its characteristic click) and the pressurization of the preheated plate. During the pressurization time, the characteristic sound of compressed air being released into the pressure chamber will be heard.

8.16 - After approximately 15 to 20 seconds, depending on the thickness of the plate used, turn off the main switch (06) to depressurize the pressure chamber (03). At this moment the air valve will be closed (with its characteristic click) and the flow of compressed air will be interrupted. After complete depressurization, turn the pressure chamber lock knob (08) fully to the right, counterclockwise, to release the pressure chamber opening (03) (Image 25).



Img. 25

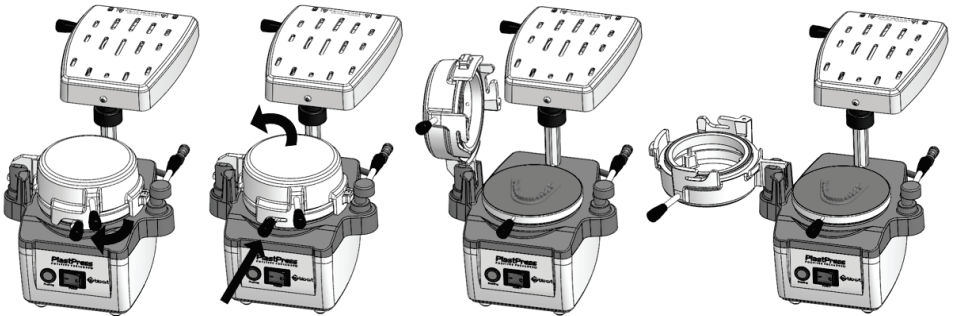


Attention:

Never force the pressure chamber lock knob (08) to try to open the pressure chamber (03) before interrupting the flow of compressed air, by turning off the main switch (06). Failure to follow this safety procedure could result in accidents causing injury to users and damage to the product.

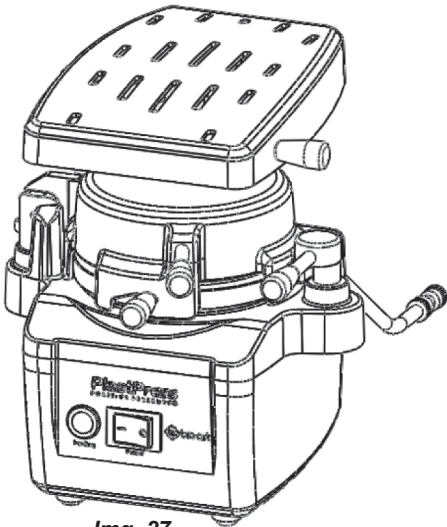
8.17 - Carefully open the pressure chamber (03), pulling it up and to the left, through its knob (07), until it is positioned with its opening fully facing up (Image 26). Move the plate lock ring knob (12) counterclockwise to the right to release it and allow the plate to be removed. To do this, hold the pressure chamber handle with the other hand in order to have a firm movement and keep the laminator in position.

Note: If you are using the model holder in the bucket function, at this moment of opening the pressure chamber, eventually the shots that were stuck in the plate may come loose.



Img. 26

8.18 - After removing the plate already with the plasticized model, replace the locking ring (11) in the pressure chamber (03), returning it to the initial position, that is, closed. Also return the heating unit (01) to the front position, reducing the space occupied by the laminator during its storage (Image 27).



Img. 27

8.19 - Let the model cool down for about 30 seconds before working on it.

8.20 - If the laminator is not used frequently, we recommend removing the power cord from the electrical outlet and disconnecting it from the compressed air hose.

Attention:

To remove the template and finish the plate, cut out the excess material with scissors, a stylus, steel, or carbide disc, depending on the stiffness and thickness of the plate. For rigid plates or plates over 1.0mm thick, we strongly recommend using the Bucket Holder for the lamination process, as mentioned above.

The final finishing of the edges can be done with mounted stones, Scotch-Brite brushes or rubber discs.



► 9 - MAIN APPLICATIONS

9.1 - FIXATION OF BRACKETS

Indicated plates	Soft Plate 1.0 mm Crystal Plate 0.3 mm
Ideal laminating point	Plate flow
Finishing	Use model bucket holder. Cut out the plate with a utility knife or scissors.
Considerations	The brackets must be positioned on the study model before lamination with glue that is not very adherent so that they can be easily removed together with the plate after lamination. Next, the patient's teeth are properly prepared and the plate is placed with the brackets, thus fixing all the brackets at once. Carefully remove the plaque with a knife or scalpel.

9.2 - CAPS

Indicated plates	Crystal Plate 0.3 mm
Ideal laminating point	Plate flow
Finishing	Use a flat model door. Cut out the plate with a knife, scissors or scalpel.
Considerations	For better use of the plate, several dies can be placed on the model holder, as long as there is enough space between them for laminating. The dies can be placed on the model holder on a mold or children's colored clay.

9.3 - DIE FOR COMPOSITE RESIN

Indicated plates	Milky Plate 0.6 mm Soft 2.0 mm.
Ideal laminating point	Plate transparency to milky. Flow to Soft.
Finishing	Use a flat model door. Cut out the plate with a knife, scissors or scalpel.
Considerations	Dental reconstruction is performed on the study model with material that withstands the heating temperature (plaster, resin, mold, teeth, artificial teeth...). If using wax, a duplicate of the plaster model must be made, as the wax melts with the heat of the machine. Use only the indicated material (Milk or Soft plate), as other types of material may chemically react with the resin.

9.4 - PROVISIONAL BRIDGE

Indicated plates	Milky Plate 0.6 mm Soft 2.0 mm.
Ideal laminating point	Plate transparency to milky. Flow to Soft.
Finishing	Use a flat model door. Cut out the plate with a knife, scissors or scalpel.

Considerations	<p>Dental reconstruction is performed on the study model with material that withstands the heating temperature (plaster, resin, mold, teeth, artificial teeth...). If using wax, a duplicate of the plaster model must be made, as the wax melts with the heat of the machine. The new (rehabilitated) model is laminated.</p> <p>Note: Use only the indicated material (Milk or Soft plate), as another type of material adheres to the resin. After laminating, carefully remove the plate from the model and fill the plate space where the temporary bridge will be built with self-curing resin, then take it to the dental preparation. For use in the mouth, the tray should be adapted to protect the limit of 1 or 2 teeth on each side of the area and provide approximately 3 mm around the gingival margin.</p> <p>During preparation, the tray can be inserted into the mouth and used as a reference for the preparation contour. It will provide an anatomy similar to natural teeth and convenient occlusion with the antagonist arch. The correct relationship is established in the mouth and can be observed if all edges are well demarcated and flawless. When the resin starts to heat up, the resin/tray assembly can be detached and resealed so that it does not polymerize on the preparations.</p> <p>When the acrylic is fully polymerized, the tray must be removed by bending or stripping it. The acrylic obtained will be practically polished.</p>
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9.5 - MOUTH GUARD

Indicated plates	3.0 / 4.0mm Soft Plates.
Ideal laminating point	Plate drain.
Finishing	Use model bucket holder. Trim the excess with scissors or a scalpel.

9.6 - BITE PLATE (MYORELAXANT/BRUXISM)

Indicated plates	Crystal Plate 1.0 / 1.5 / 2.0 / 3mm.
Ideal laminating point	Plate flow
Finishing	<p>Use model bucket holder.</p> <p>Cut off the excess with a steel or carbide disc.</p> <p>Smoothing edges with mounted stones.</p>
Considerations	Occlusal adjustment should be made in a semi-adjustable BIO-ART articulator using adhering material (self-curing acrylic resin) and wearing down the plate if necessary.

9.7 - BASE PLATE

Indicated plates	Crystal Plate 1.0 / 1.5 / 2.0 / 3.0mm.
Ideal laminating point	Plate flow
Finishing	<p>Use model bucket holder.</p> <p>Cut off the excess with a steel or carbide disc.</p> <p>Smoothing edges with mounted stones.</p>

9.8 - INDIVIDUAL MOLDS

Indicated plates	Crystal Plate 1.0 / 1.5 / 2.0 / 3.0mm.
Ideal laminating point	Plate flow
Finishing	Use model bucket holder. Cut off the excess with a steel or carbide disc. Smoothing edges with mounted stones.
Considerations	The preparation of the handle can be done by adding a small amount of self-curing acrylic resin in the form of a stick on the finished plate.

9.9 - TRAYS FOR HOME WHITENING

Indicated plates	Crystal Plate 0.3 mm Soft Plate 1.0 mm
Ideal laminating point	Plate flow
Finishing	Use model bucket holder. Trim the excess with scissors or a scalpel.
Considerations	There is no need for relief, however, if desired, relief can be done by brushing (painting) with nail polish the dental surface of the model where the whitening gel should be placed.

9.10 - STUDY MODEL PACKAGING (FILE)

Indicated plates	Crystal Plate 0.3 mm
Ideal laminating point	Plate flow
Finishing	Use model bucket holder. Trim the excess with scissors or a scalpel.

9.11 - SURGICAL GUIDE

Indicated plates	Crystal Plate 1.0 / 1.5 / 2.0 mm.
Ideal laminating point	Plate flow
Finishing	Use model bucket holder. Trim the excess with scissors or a scalpel. Smoothing edges with mounted stones.
Considerations	After making the plate, the points of surgical interest must be marked on it, based on the study model, consequently the plate is drilled at the demarcated points.

9.12 - TRAY FOR FLUORIDATION

Indicated plates	Crystal Plate 0.3 mm 1.0 mm soft
Ideal laminating point	Plate flow
Finishing	Use model bucket holder. Trim the excess with scissors or a scalpel.
Considerations	Model relief can be done in two ways: A-) Brushing (painting) with nail polish the dental surface of the model where the fluoride gel should be placed. B-) Placing a foam of approximately 2 mm on the dental surface of the model and laminating this set (tray + foam). The foam will adhere to the plate after laminating.

9.13 - ORTHODONTIC APPLIANCE (ALIGNER)

Indicated plates	Crystal Plate 0.75 / 1.0 mm.
Ideal laminating point	Plate flow
Finishing	Use model bucket holder. Cut off the excess with a steel or carbide disc. Smoothing edges with mounted stones.
Considerations	The modeling of the plate for tooth movement must be done with the specific toolkit of the recommended technique (pliers, blowtorch, etc.).

► 10 - FUSE REPLACEMENT

10.1 - Disconnect the power cable (19) from the socket and the input connector (18) before replacing the fuse.

10.2 - Insert a small screwdriver into the slot on the bottom of the fuse holder cover, located above the input connector pins (18), forcing it out until the assembly is released.

10.3 - Pull the fuse holder assembly out to the end and observe the existence of two fuses fitted in the holder.

10.4 - The fuse that is visible is the one with the problem and must be replaced. The other, inside a plastic housing, is the spare fuse that should be used to replace the faulty fuse.

10.5 - Insert the assembly back into the compartment and press it until it is completely seated. Remember to buy another fuse of the same specification and fit it in the spare position, so that, if necessary, it can be used on another occasion.

10.6 - Turn on the machine to check if the operation is correct. If the fuse fails again, send the equipment to the Authorized Technical Assistance to check the possible cause of the problem and solve it.



Attention:

Only replace blown fuses with the same type as specified in the table below:

Rated Voltage	Operating Voltage	Fuse (Type)	Fuse (Value)
127Vac	127 Vac (114Vac - 139Vac)	Ø5 x 20mm quick action	5A / 250Vac
220Vac	220 Vac (198Vac - 242Vac)		3A / 250Vac

► 11 - REPLACEMENT OF THE POWER SUPPLY CORD

If there is any damage to the power cable (19), stop using the laminator immediately and replace it only with another of the same type.



Attention:

Only replace the power cable with others with the following specification: PP cable, 2P + T Plug at 180°, C13 connector, 10A/250V, 3x1.00 mm², 1.50m.

► 12 - SAFETY PRECAUTIONS

12.1 - Leave the model as low as possible to avoid large deformations of the plate.

12.2 - When working with the flat part of the Model Holder (14), leave the base of the plaster model flat to prevent the plate from penetrating between the plaster model and the Model Holder (14).

13.3 - Due to the diversity of plates and jobs that can be performed, we suggest a careful analysis of the process before starting each job.

13.4 - Handle the heating unit (01) only through its knob (02), avoiding touching it directly, as its surface and underside heat up a lot during the lamination process, which can cause burns.

13.5 - Do not allow children or untrained people to operate the laminator.

13.6 - Do not attempt to operate the laminator if any damage is identified in any of its parts.

13.7 - Do not attempt to operate the laminator in any position other than its five supports correctly positioned on a firm, flat surface.

13.8 - Do not leave the laminator turned on without supervision.

13.9 - Do not leave the laminator turned on in heating mode longer than the time necessary for the plates to soften correctly.

13.10 - If any abnormal noise or smell is observed during the operation of the laminator, turn it off immediately.

13.11 - Do not use the laminator near solvents or other flammable materials.

13.12 - During installation and operation of the laminator, check if there are no air leaks.

13.13 - Do not connect the laminator to compressed air lines with pressures greater than 8 bar (116 psi).

13.14 - Do not disconnect the air hose extender (16) that is connected to the laminator. It has a silicone tube to protect against heating the resistor and a quick "sacrificial" connection (after many connections and disconnections, it may be necessary to replace it with a new one, without the need to disassemble the laminator). This connection can also be changed to adapt the laminator to other compressed air network standards, e.g. 8 or 10 mm.

13.15 - Do not activate the pressure chamber lock (08) with the pressure chamber (03) open, out of position for the correct pressurization of the plates.

13.16 - Never try to force the pressure chamber lock knob (08) to open the pressure chamber (03) without depressurizing it first, through the main switch (06).

13.17 - Confirm that the locking ring (11) of the plates is correctly positioned before starting the heating and pressurization phase.

13.18 - Never bring your face close to the air pin (15), as compressed air can unexpectedly be released through it and cause damage to your eyes.

13.19 - Do not use the laminator for any purpose other than that intended by the manufacturer.

► 13 - MAINTENANCE AND CLEANING

13.1 - Keep the laminator always clean and protected from moisture, especially the resistance located in the heating unit.

13.2 - To clean the cabinet, use only a cloth dampened with water and neutral detergent. Do not use abrasive materials, alcohol or flammable liquids.

13.3 - Resistance is a component that requires some care, under no circumstances can it receive moisture while it is heated and it should not be touched with tools, metal objects or hands.

13.4 - If there is a need to replace the resistance, this should preferably be done by an Authorized Technical Assistance.

13.5 - If the power cable is damaged, it must be replaced by another that has the same characteristics and certifications.

► 14 - SPECIAL STORAGE CONDITIONS

If the machine needs to be left unused for a long period, we recommend after cleaning it as described in chapter 13, and storing it in its original packaging in a dry, ventilated place, free from vibrations and protected from sunlight.

► 15 - TROUBLESHOOTING

Problem	Possible Cause	Solution
The laminator does not turn on when the main switch is actuated/main switch does not light up	No power in the laminator	Check the electrical network, the power cable and the protection fuse.
The main switch lights up, but the heating is inoperative	Burnt heating resistor	Change the resistor, seek an authorized technical assistance.
	Pressure chamber out of position for plate heating	Correctly position the pressure chamber for heating the plate.
	Pressure chamber lock knob rotated clockwise (locked)	During plate heating, keep the pressure chamber lock knob fully turned in the counterclockwise (unlocked) position.
Normal heating, however, pressurization does not occur	Compressed air hose disconnected and/or out of air	Connect hose and check if there is pressure in the system
	Pressure chamber not in correct position for pressurization	Position the pressure chamber in the correct position for pressurization
	Pressure chamber latch is not correctly positioned	Turn the pressure chamber lock knob fully clockwise
	Air leakage	Check compressed air hose connections

The plate detaches from the pressure chamber when the chamber is moved	Plate locking ring out of position	Turn the plate lock ring fully to the left (clockwise)
Insufficient lamination or no defined contours	Compressed air network pressure too low	Check the situation of the air compressor and its regulating valve
	Insufficient plate heating	Increase plate warm-up time
	Air leakage	Check that the plate is correctly fixed and that there are no faults in the air connections
	Use of thick plates with low air network pressures	Increase the pressure of the compressed air network, without exceeding the max. laminator usage pressure
Insufficient and/or non-uniform heating of the plates	Short plate warm-up time	Increase plate warm-up time
	Heating unit out of position	Position heating unit correctly above the plate
	Supply voltage too low.	Check the power supply voltage level of the socket
	Laminator model 220V wrongly connected to a socket with a voltage of 127V	Connect the laminator to an outlet with voltage suitable for your model
Excessive plate heating	Long plate warm-up time	Decrease plate warm-up time
	Laminator model 127V wrongly connected to a socket with a voltage of 220V	Connect the laminator to an outlet with voltage suitable for your model
It takes time to heat the plate to the ideal point (more than 1 minute)	Supply voltage too low.	Check the power supply voltage level of the socket
	Laminator model 220V wrongly connected to a socket with a voltage of 127V	Connect the laminator to an outlet with voltage suitable for your model
	Card storage temperature too low	Leave the plate previously at room temperature before use.
Difficulty locking round plates in the pressure chamber using the locking ring	Round plate wrongly centered in the pressure chamber before being locked by the locking ring	Correctly center the round plate in the pressure chamber before locking it by the locking ring
Difficulty turning the pressure chamber lock knob to close the pressure chamber	Pressure chamber is misplaced in laminator cabinet cover	Center the pressure chamber correctly and press it down to facilitate its locking.
	Round plate wrongly centered in the pressure chamber before being locked by the locking ring	Correctly center the round plate in the pressure chamber before locking it by the locking ring

Difficulty turning the pressure chamber lock knob to open the pressure chamber	The pressure chamber is still pressurized	Turn off the laminator using the main switch to depressurize the pressure chamber before opening it.
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► 16 - WARRANTY AND TECHNICAL ASSISTANCE TERMS

BIO-ART Equipamentos Odontológicos Ltda., provides a 1-year warranty for PlastPress.

This warranty covers any and all manufacturing defects, being provided upon repair of the product and subject to the following requirements:

A-) That the product has been used correctly, in accordance with the instructions provided.

We remind you that the Laminator must be handled, transported and stored with care. Dropping or hitting the device will characterize misuse, resulting in loss of warranty.

B-) That the complaint is accompanied by the Invoice of purchase of the product.

To take advantage of this guarantee, the consumer must send the product at its own expense (shipping on behalf of the owner) to the nearest Bio-Art Authorized Technical Assistance or to the following address:

Rua Teotônio Vilela, 120 - Jardim Tangará

CEP 13568-000 - São Carlos - SP - Brazil

Tel. +55 (16) 3371-6502 - (16) 3372-5953

CNPJ 58.538.372/0001-56 - I.E. 637.034.447.113

Website: www.bioart.com.br - E-mail: assistenciatecnica@bioart.com.br

We remind you that this machine does not have dual voltage, so check the voltage of your machine (127 or 220Volts) before turning it on. Warranty does not cover damage due to improper voltage connection. Technical Assistance for the machine may only be carried out by specialized personnel. Any improper alteration to the machine will void the warranty.

In case of sending the machine for service, make sure that the machine is properly packed to avoid damage caused by a possible fall of the machine during transport.

Any defects resulting from the natural wear and tear of the product, as well as damage caused during transport, both on the way out and on the way back, are excluded from this warranty.

The information contained in this manual is subject to change without prior notice.

► 17 - AUTHORIZED TECHNICAL ASSISTANCE:

For your safety, this product should be serviced by authorized persons / companies. Consult Authorized Technical Assistance posts at our website www.bioart.com.br



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BIO-ART EQUIPAMENTOS ODONTOLÓGICOS LTDA.

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