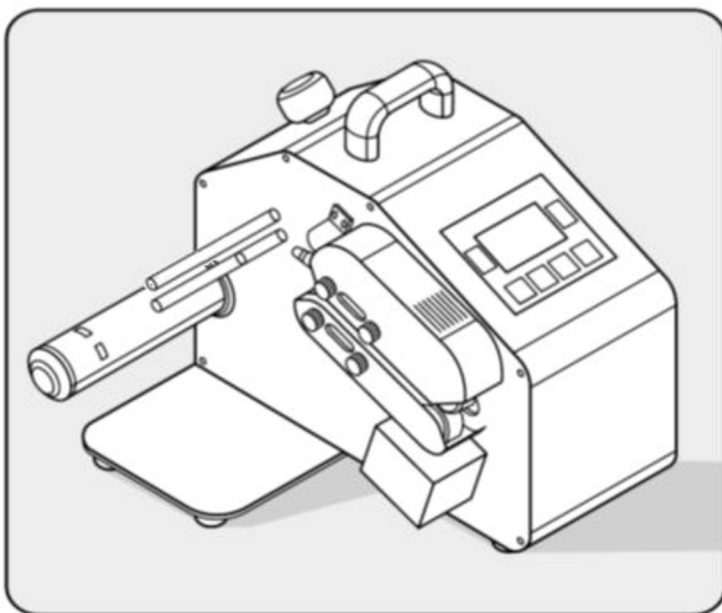


USER MANUAL



Air fillings inflating device

Model: APS 20



Dear Customer,

Thank you for choosing the Politan Air Protect System air filling inflating device. In order to ensure its correct and optimal use, read the contents of this manual with particular attention to the rules of safe operation of the device.

All copyrights to the materials and texts contained in this manual remain with the author. All trademarks are used for informational purposes only and belong to their respective owners. The content of the manual and all its elements are protected under Polish and international law, including in particular the provisions on copyright and related rights and on combating unfair competition.

Copying, modifying and transmitting, electronically or otherwise, reproduction, use and distribution of the materials contained herein is allowed only with the consent of the owner. The information available in this manual may only be used in accordance with the law.

The device may only be used for the production of packaging materials made of film intended for this purpose. The user of the device is obliged to follow all the provisions of this manual and is fully responsible for all precautions concerning its safety.

In case of modification or disregard of the content of the manual, all conditions of guarantee and liability of the manufacturer will be cancelled.

The manufacturer is not liable for any damage resulting from failure to include information in the manual or including incorrect information in it, moreover, the manufacturer reserves the right to make changes to the content of this manual at any time without notice.








Politan Management Board

CONTENTS

1. Object and purpose	4
2. Safety instructions	5
2.1. Potential dangers	5
2.1.1. Noise	7
2.1.2. Environmental conditions	7
2.2. Certificates	8
3. Introduction	8
3.1. Presentation of the device	8
3.1.1. Device dimensions	8
3.1.2. Technical parameters	9
3.2. Device parts	9
3.3. Operation	10
3.4. Error codes - understanding and handling them	12
3.5. Notes	13
3.6. Power supply	14
3.7. Storage of film	14
3.8. Recommended operating settings	14
4. Maintenance and repair	15
4.1. Preventative maintenance	15
4.2. Replacement of cutting knife	16
4.3. Replacement of PTFE strip	17
4.4. Replacing the glued PTFE strip	19
5. Extensions and add-ons	20

1. OBJECT AND PURPOSE

 	CAUTION: Before starting any work on the device, every operator is obliged to read the contents of this manual.
	CAUTION: Any other form of use as well as use of the device not in accordance with the form described in this manual is forbidden.
 	CAUTION: Persons not trained in the use of the device and in the occupational health and safety regulations are FORBIDDEN from starting the machine.

This manual has been prepared in order to familiarize operators with the key elements of the equipment, learn how to use the system and eliminate the basic faults of the Politan Air Protect System device for the production of air fillings from film materials used for securing all types of products that require special protection during transport or storage. The Politan Air Protect System device perfectly meets market needs due to its compactness, efficiency, functionality and easiness of operation (Fig. 1).

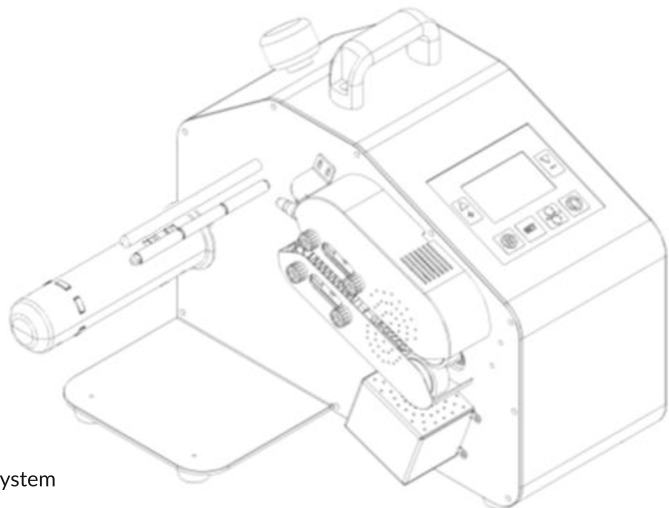


Fig.1 The Politan Air Protect System device for air fillings

2. SAFETY INSTRUCTIONS



CAUTION: In order to optimally and safely use the device, please read carefully and fully follow the instructions in this manual.

2.1. Potential dangers

In the interest of the health and safety of device users, we ask for the following statements to be confirmed before putting the device into operation:

- An authorized supplier or an authorized person has carried out training or e-training of the operators in a clear and understandable manner,
- The operator has read and understood the content of the operator's manual and all safety signs placed on the device,
- You have made sure that the power supply of the device complies with the mains supply and meets all requirements, including grounding,
- The device is on a stable, flat and large enough surface enabling its safe use.



CAUTION: When inserting the working material into the device with the drive turned on, be extremely careful and do not put your hands or any other parts of the body into the operating zone of the drive-pressure system.



CAUTION: When loading the working material and guiding it through the feeding system, the temperature near the sealing point may be higher than 100 ° C. Direct contact with the components may result in burns.



CAUTION: The device is powered by the voltage of the power network that is dangerous to life. Any service activities on the device not described in this manual may be performed only by qualified personnel with authorizations required by law.



CAUTION: The entity that purchased or uses the machine is solely responsible for the surface on which the device is installed and its possible impact on the device.



CAUTION: It is **FORBIDDEN** to undertake any actions leading to the deterioration of the safety status of the machine (e.g. working with casings removed or covers removed, interlocking of key switches, etc.).

The air fillings produced by the device should only be used to secure packages and shipments. Any other use is inconsistent with the intended purpose and may pose a threat to life or health.

In the interest of the health and safety of our users, we ask for the following statements to be confirmed before performing replacement of consumables and / or carrying out repairs on the device:

- The power source has been turned off and the power cord has been disconnected from the socket,
- All the components and tools needed for the work are ready,
- You have acquired full theoretical knowledge about each of the steps of the replacement or repair being carried out.



WARNING: Despite the limitation of the potential risk to life or health by the use of protective covers, it has not been completely eliminated, this is due to the nature of the process of manufacturing air fillings. Therefore cautiousness is required at all times when working with the device.



IMPORTANT: The Politan Air Protect System device may be used only with the Politan Air Protect System film. If a different film, not supplied by Politan, is used the manufacturer has the right to immediately terminate the service agreement and stop delivering all related raw materials and components for the device.



WARNING: Do not attempt to repair or modify the Politan Air Protect System air filling device except for the activities described in point 4. "Maintenance and repair". All other repairs should be carried out by Politan representatives, an authorized distributor or maintenance personnel trained by Politan.

Regularly check the parts described below to ensure safe operation:

- Cables - check they are not scratched, damaged or exposed,
- PTFE strips - check they not damaged or contaminated,
- Overall condition - e.g. whether the display, buttons etc. are working properly.



CAUTION: If you notice any undesirable occurrences, immediately turn off the device, disconnect the power plug and contact a technical service representative.

Politan is not liable for damages resulting from improper use of the device or resulting from failure to follow this user manual.

2.1.1. Noise

The maximum noise generated during the operation of the Politan Air Protect System device does not exceed 95dB.

2.1.2. Environmental conditions



CAUTION: If there is a large difference between the outside temperature and the temperature of the room in which the device is being installed, only start the device 24 hours after installation.



When packing, unpacking and transporting the device, pay special attention not to knock or drop the device on the ground.

The permissible storage and operation temperatures of the device and film are specified in Table 1.

Device storage temperature	0-43°C
Film storage temperature	
Device operating temperature	16-43°C
Working temperature of the film	

Tab 1. Storage and operation temperatures of the device and film

2.2. Certificates

The Air Protect System device by Politan complies with the relevant standards included in the European Directive EMC 2014/30 / EU and the LVD Directive 2014/35 / EU. Compliance with the standards has been checked by an independent, specialized certification body and the device has been approved for use on the basis of the CE certificate number SZEM180700586401.

3. INTRODUCTION

3.1. Presentation of the device

Politan's Air Protection System is a lightweight, portable device made of materials ensuring durability and strength of the structure while maintaining a professional appearance. This device is able to produce fillings of all shapes and sizes manufactured by Politan. High efficiency is ensured by the use of a brushless electric motor with high torque and durability. The built-in power supply allows the device to operate at 110V / 220V. Compared to other air-filling devices this makes it more durable, quieter and longer-lasting. Politan's Air Protect System is the best choice for small and medium-sized businesses and online stores.

3.1.1. Device dimensions

Device dimensions:

(length x width x height)

400mm x 380mm x 320mm

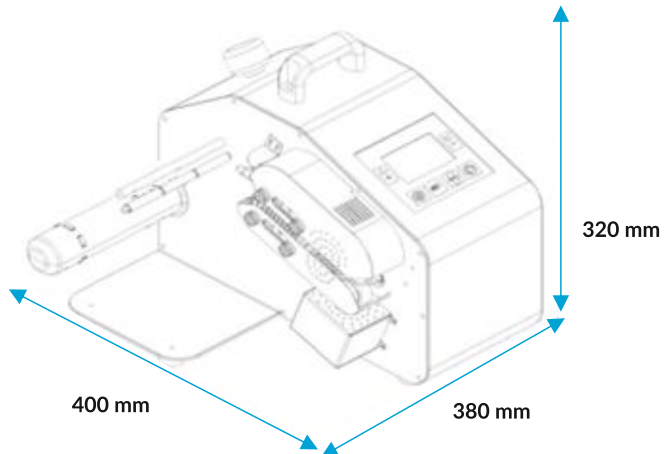
Packaging dimensions:

(length x width x height)

500mm x 430mm x 400mm

Device weight: 12.6 kg

Total weight: 14 kg



Rys.2. Device dimensions

3.1.2. Technical parameters

Model: APS 20

Rated power: 320W

Sealing temperature: 70 – 150°C (adjustable)

Production speed: 18m/min

Input voltage: 86-264V

Rated frequency: 50-60HZ

Power connection: Y

Air volume: 300l/min

Anti-shock class: I

3.2. Device parts


- Main ON/OFF power switch - the button for switching the device on and off is located on the back of the device,
- **Start** and **Stop** button – turns the device on and off,
- Manual insertion button – starts / stops the device operation,
- Main power cord - connect the power cord to the appropriate outlet. For more information, see section 3.5 'Power',
- Control panel - visual presentation of all settings and parameters of the device,
- Roller of film roll - used to support the roll of film in a way that enables the production of air fillers,
- Sealing, blowing and cutting module - used to place the air pipette, blade and heating module responsible for the proper production of air fillers,
- Roll with film - a roll with special air channels which can be filled and sealed by the Air Protect System device by Politan,
- Emergency button - DO NOT use the emergency button as a stop button during normal use of the device.




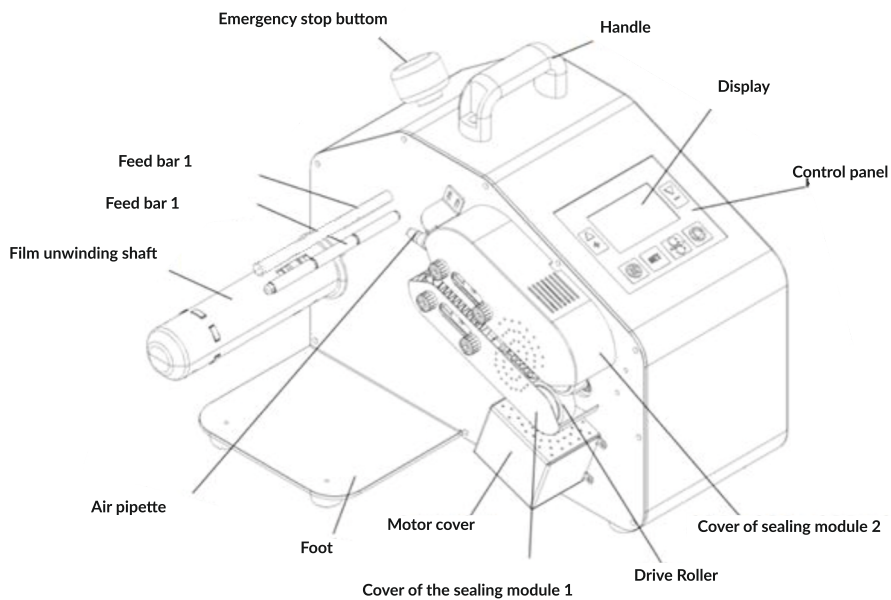
CAUTION: It is possible to stop the device in an emergency with the EMERGENCY BUTTON at any point during operation.

3.2. Operation

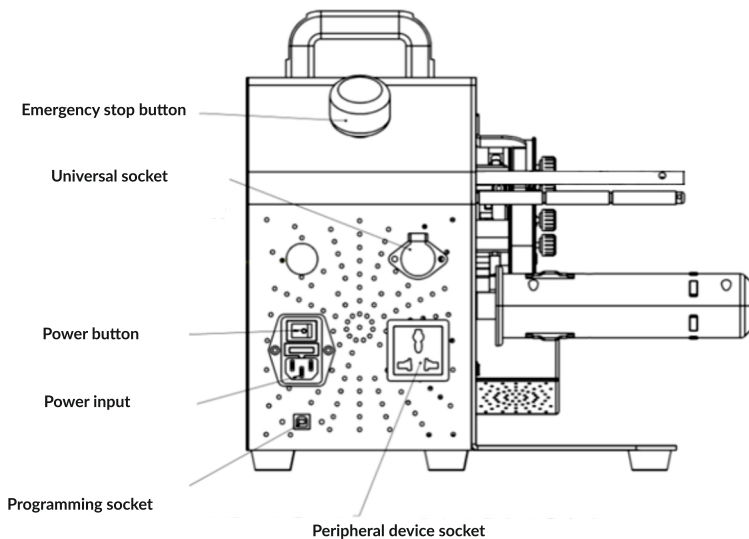
1. Place the **film unwinding shaft**, **feed bar 1** and **feed bar 2** in the appropriate places as shown in figure 3. using the provided Allen key,
2. Connect the device to power by plugging one end of the power cord into the device **power outlet**, the other end into the mains and switch it on,
3. Put the **film roll** on the **shaft** making sure that the film roll is fully inserted (to the stop point) and using the manual drive button, pull it through the air tube as shown in the training or in the film on the manufacturer's website,
4. Select the appropriate parameters for the film once it is in place by using the '**SET**' button (settings) and then '+' (plus) and '-' (minus) moving between the parameters by clicking the '**SET**' button again. Set the '**length**' parameter in the same way - after reaching the set number of meters, the device will stop automatically.
5. Enable automatic operation with the '**START**' button

 Caution: If after pressing the power switch the LCD does not light up, please check if the emergency button on the top of the device is not turned on.

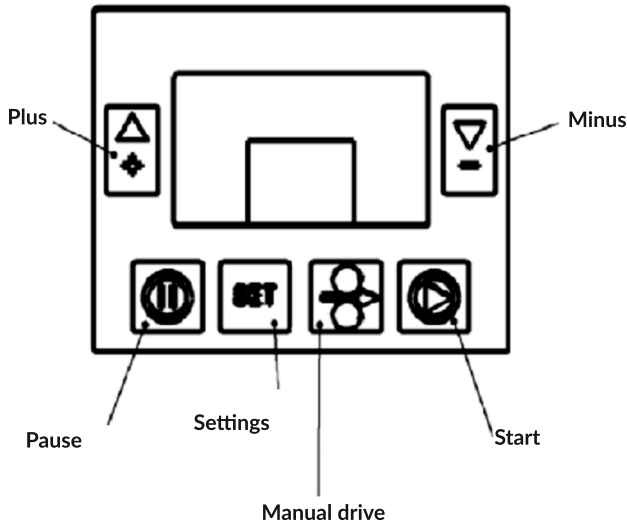
 Each of the steps described above has been presented in detail in the form of a video on the manufacturer's website.



Rys. 3 Parts of the Air Protect System device by Politan



Rys. 4 Description of the sockets and buttons of the Air Protect System by Politan



Rys. 5 Description of the Air Protect System control panel buttons

3.4. Error codes - understanding and handling them

ERR01: The indication of the temperature sensor is incorrect. This may be caused by the appliance being turned on too soon compared to the set temperature. In order to solve the problem, stop the automatic operation with the 'PAUSE' button and after a few seconds try turning it on again. If this failure occurs repeatedly during operation or in high ambient temperatures, the sensor is defective.

ERR02: The temperature of the heating strip is outside the correct values. First, check that the heating strip is not damaged. If everything is OK, examine the surface of the PTFE strip carefully and replace it if damaged.

ERR03: Heating cable disconnected. When this error is displayed, check whether any of the heating cables have not been disconnected - if so, re-connect them. If this is not the cause of the displayed error, replace the entire heating cable and then the thermoregulator.

ERR04: Motor overload. The motor has been overloaded or blocked due to internal damage. If restarting it does not help - the motor must be replaced.

ERR05: Material has run out. Install a new roll of material.

ERR06: Fan overload. Fan failure - if this error occurs, please contact an authorized dealer or technician for further repair.

3.5. Uwagi

- Do not use in humid environments,
- Before use, ensure to familiarise yourself with all instructions set out in this user manual,
- Only qualified, authorized service personnel may carry out repairs not described in this manual of the Politan Air Protect System
- Avoid touching the working parts directly with your hands, clothing, jewellery, hair, etc. while working or changing the material.
- Air fillings only serve as packaging material. Do not use air fillings for swimming, as a pillow or toys for children,
- The weight of the film should not exceed 7 kg. When loading the material on, do not load the roller with additional, unnecessary load and do not skew it,
- During long operation of the device, film can generate electromagnetic charges. The operator should not pull on the film or touch it unnecessarily. The operator should wear work clothes with appropriate footwear. Static electricity can cause discomfort,
- After a long time of operation of the device, if the film is breaking up or its production is not smooth, it is recommended to replace the cutting knife of the device,
- If the seals on the film after inflation are hard, broken by the device or not durable, check whether the set temperature is correct, whether the PTFE tape is intact and whether the heating cable is not damaged - if so, replace the damaged component in the manner specified in this user manual,
- The speed of sealing, the volume of air blown in and the temperature of sealing should be adjusted depending on the type of Politan Air Protect System film being used. The exact operating parameters are attached to each delivered film on its label,



CAUTION: DO NOT OPERATE THE MACHINE WITHOUT ANY MATERIAL!

3.6. Power supply



The customer's installation must provide protection against electric shock in accordance with EN 60204-1:2001.

For normal operation of the Politan Air Protect System device, AC should be 86 / 264V and the average current 2A with a peak value of 3.5A and a frequency of 50-60Hz. The rated power is 320W. The device is connected via an earthing conductor. Single-phase three-wire mains power supply is to be used. The connection network used must have unflinching earthing, otherwise static electricity cannot be discharged, which will cause the human body to become a conductor of the given static electricity, causing discomfort due to electric shock.

3.7. Storage of film



CAUTION: Only films produced by Politan should be used with this device. Using a different film increases the risk of incorrect production or even damage to the device. The storage temperature of the film should be 0-43 ° C, below or above this storage temperature the film may lose its protective properties. It should also be remembered that the film at the time of use should have its working temperature which is 16-43 ° C. Please use the film in the indicated temperatures in order to achieve the best end results.

3.8. Recommended operating settings

Type	Size	Temperature	Speed	Airflow
STANDARD S MAT	380 mm x 170 mm	105°C	40%	100%
STANDARD M. MAT	380 mm x 170 mm	105°C	65%	60%
ECO M. MAT	380 mm x 170 mm	100°C	70%	90%
STANDARD L MAT	380 mm x 170 mm	105°C	65%	45%
ECO L MAT	380 mm x 170 mm	105°C	65%	45%
M STRONG MAT	380 mm x 170 mm	110°C	65%	80%
AIR PILLOW XL STANDARD	215 mm x 115 mm	95°C	45%	10%
AIR PILLOW XL ECO	215 mm x 115 mm	100°C	45%	10%
AIR PILLOW XXL STANDARD	215 mm x 115 mm	100°C	45%	2%

The parameter values given in the table above are recommendations the application of which will extend the life of the device while maintaining good quality production results. However, depending on the conditions and scope of application, a minimal modification of the temperature, airflow or speed of the device is allowed.

4. MAINTENANCE AND REPAIR

4.1. Preventative maintenance



PRZED
ZDJĘCIEM OSŁONY
WYŁĄCZ

Users of the device **ARE ORDERED** to disconnect the power utilities from the machine before undertaking any service, maintenance or preventive work.



W NIEBEZPIECZENSTWIE
NACIŚNIJ PRZYCIŚNIK

In the event of any danger to the operator or any failure of the machine users **ARE ORDERED** to perform immediate shutdown of the machine by means of the emergency stop button.



CAUTION: All assembly activities related to the setting of the machine should be performed in accordance with the description in the documentation and / or according to the instructions provided by the Contractor during technical commissioning.

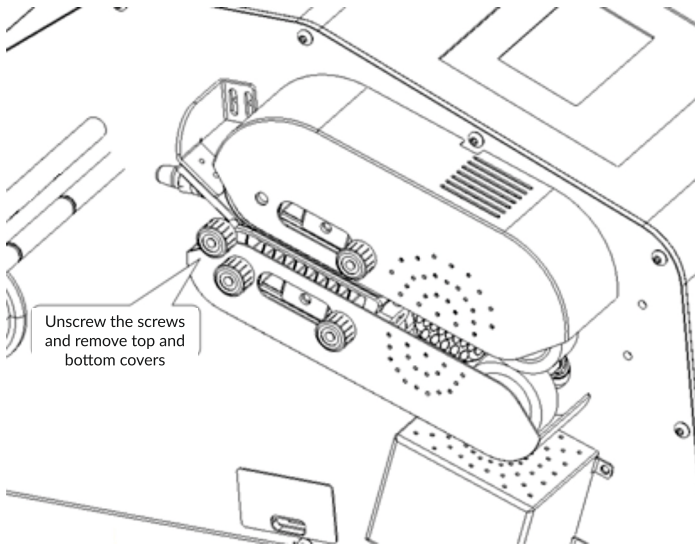


CAUTION: Before performing any maintenance or repair on the Politan Air Protect System device, remember to turn off the device and disconnect the power cord from the socket.

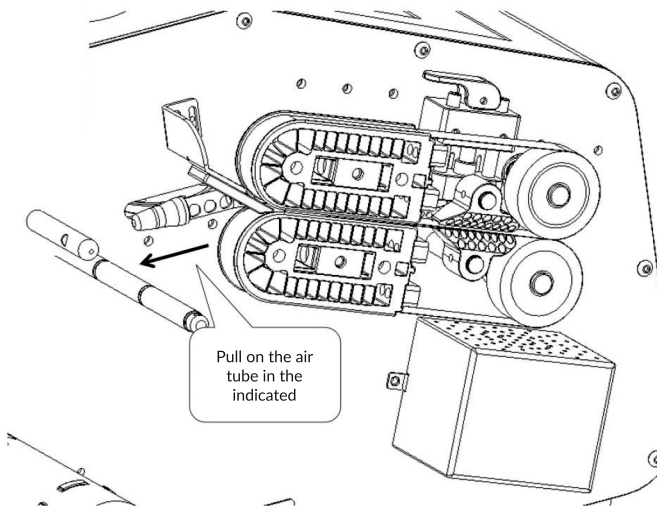
Maintenance cycle	Detail	Description
Weekly	Check and clean	Open the cover of the PTFE tape, blow off dust and foreign matter, visually check all visible elements for correctness
Monthly	Contact	Arrange a meeting with an authorised dealer or a representative of Politan in order to discuss any issues occurring during use of the device

4.2 Replacement of cutting knife

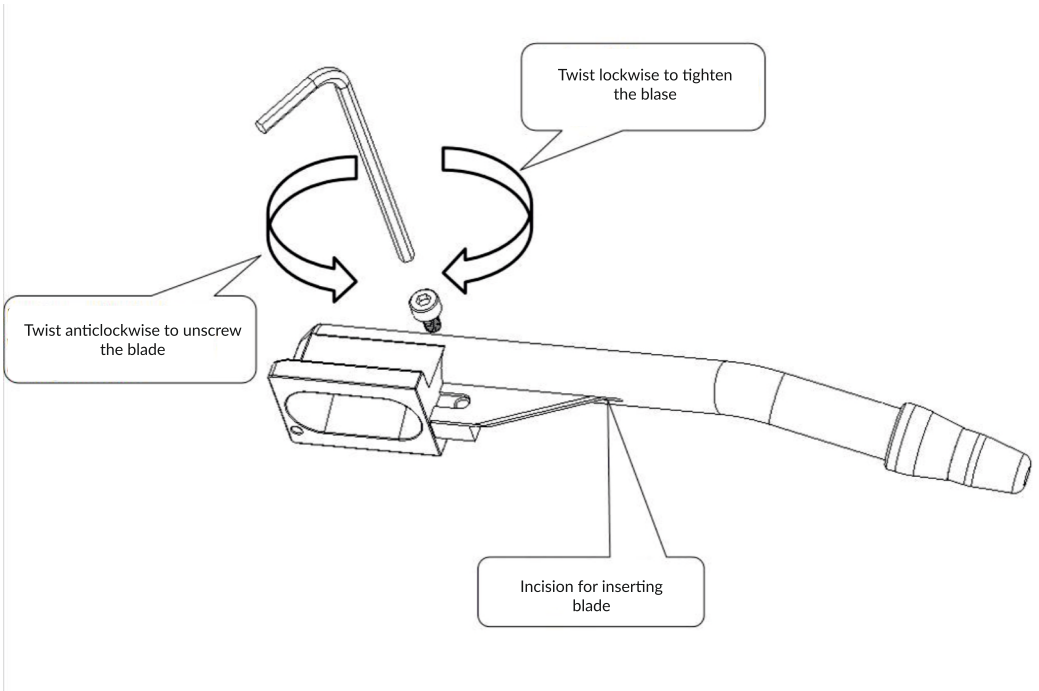
In order to replace the cutting knife, unscrew the screws of the upper and lower cover and remove them (Fig. 6) and then firmly pull the air tube in the direction indicated by the arrow in Fig. 7. The pulled out element is equipped with a cutting knife which must be unscrewed using the Allen key included in the set by turning it clockwise (fig. 8).



Rys. 6. Replacement of the cutting knife - step 1.



Rys. 7. Replacement of the cutting knife - step 2.

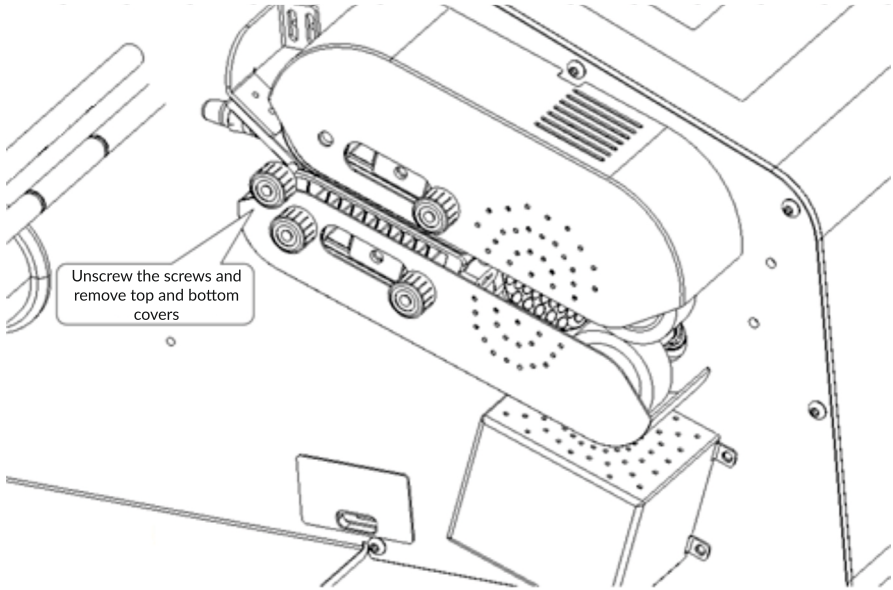


Rys. 8. Replacement of the cutting knife - step 3.

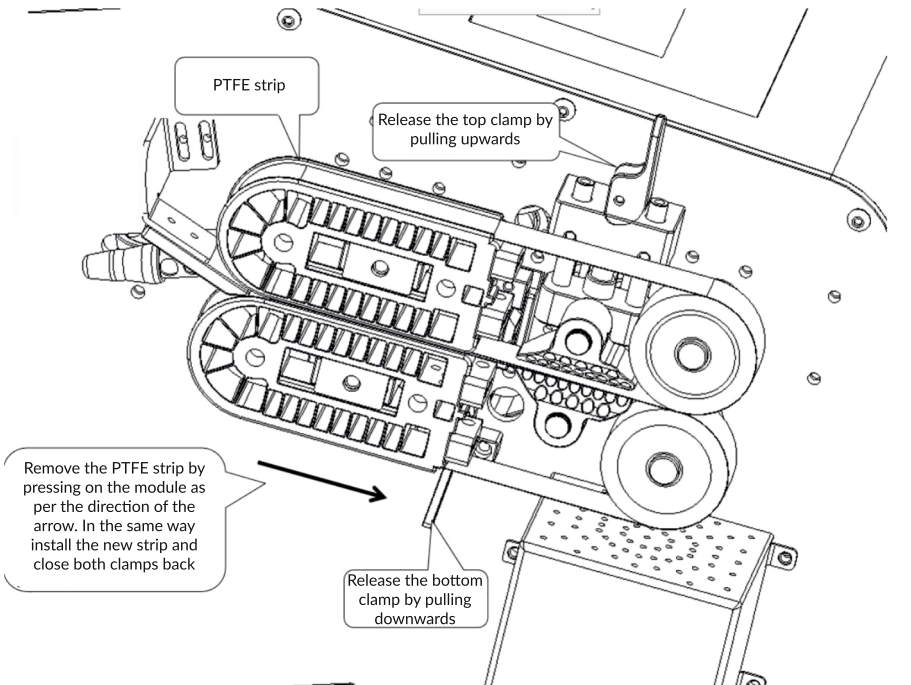
After replacing the blade, assemble the machine components in reverse order.

4.3 Replacement of PTFE strip

In order to replace the PTFE strip, unscrew the screws of the upper and lower cover and remove them (Fig. 9), then locate and open the clamps in the upper and lower part of the module as shown in Fig. 10. This will cause the two parts of the module to move away from each other, giving space for the replacement of the PTFE strip. By pressing and holding the module on the left side as shown in the figure, we will loosen the strip and allow it to be removed. Install a new strip in the same way. The replacement method is identical for both the upper and the lower module of the PTFE strip.



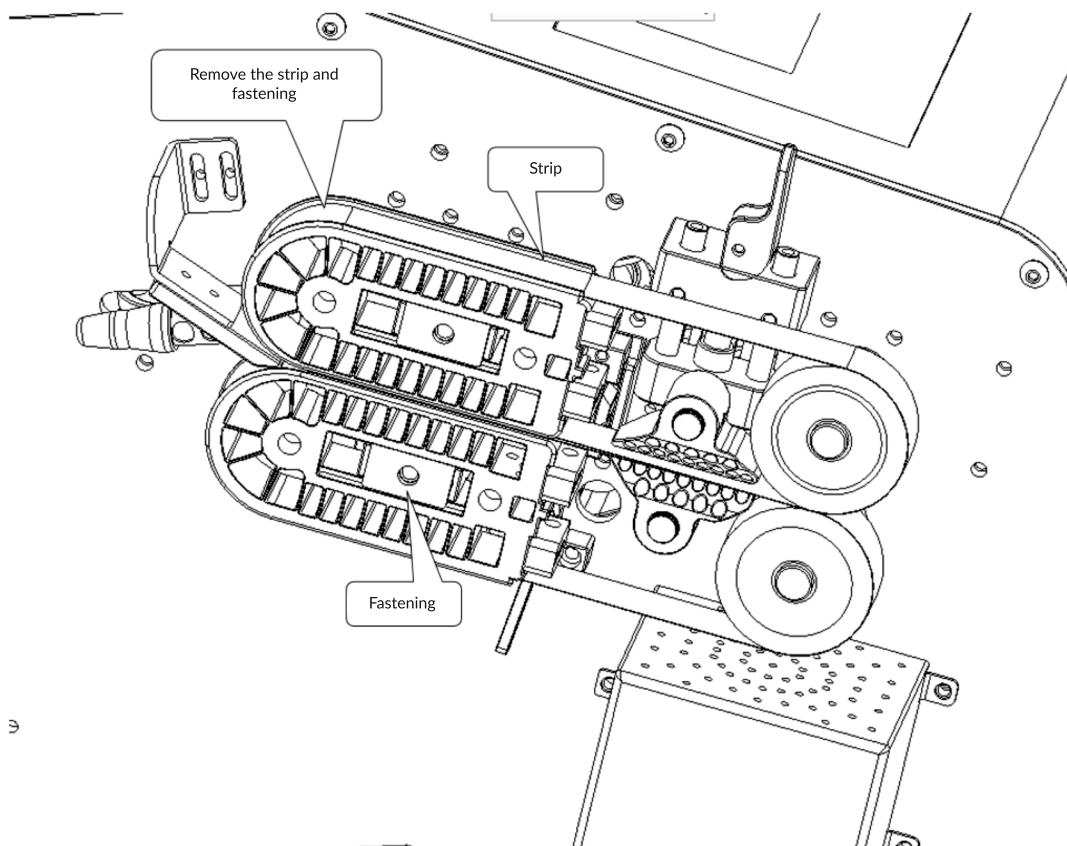
Rys. 9. Replacement of the PTFE strip - step 1.



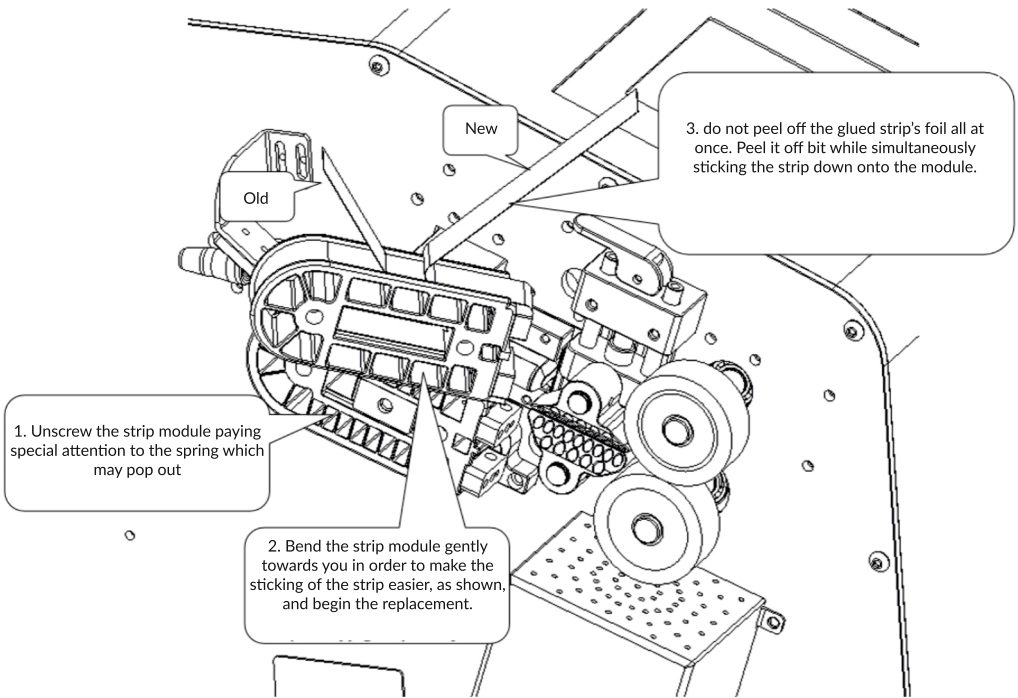
Rys. 10. Replacement of the PTFE strip- step 2.

4.4 Replacement of glued PTFE strip

In order to replace the glued PTFE strip, perform all actions in accordance with section 4.3 Replacement of the PTFE strip until the PTFE strip is removed from its module. Next, unscrew the fastening of the belt module (fig. 11). Caution! When unscrewing the fastening, pay special attention to the spring that holds it in place - it may pop out. After unscrewing the fastening, gently move the module away from the device as shown in Fig. 12 and slowly, peeling the strip off piece by piece, stick the new glued PTFE strip on the module in place of the old one. During this activity you can only use tools that do not scratch the surface and are safe for the device.



Rys. 11. Replacement of the glued PTFE strip - step 1.



Rys. 12. Replacement of the glued PTFE strip - step 2.

5. EXTENSIONS AND ADD-ONS

For more information on extensions and additions to the Politan Air Protect System device, please contact your sales advisor or the manufacturer.