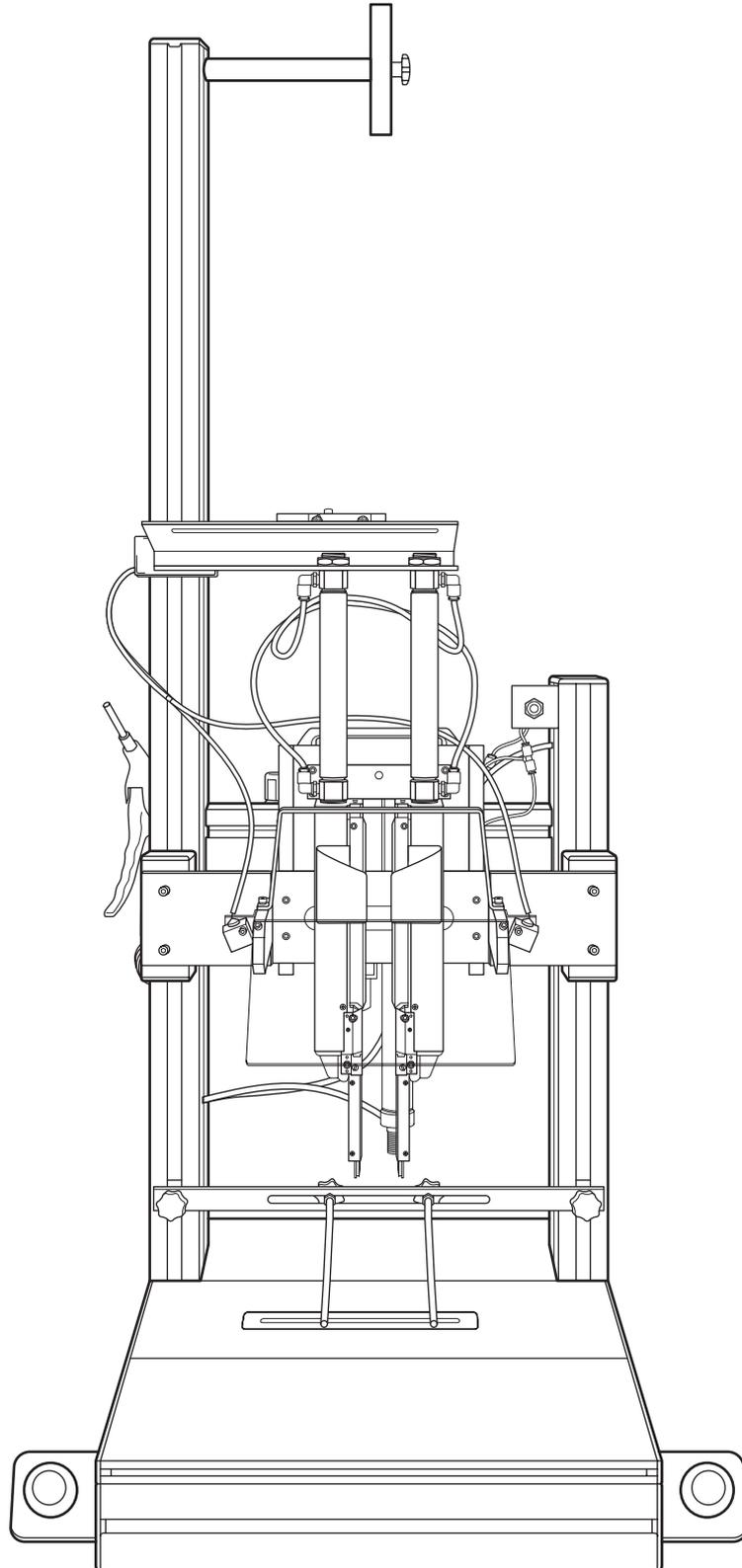


TAGSON®



PS-2/ES

Automated pack & tag
machine with IndES
fastening system

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Technical information

TAGSON®

PACK & TAG MACHINE

TYPE: PS-2/ES

Air pressure: 5,5 bar / 80 psi

Production year: 2018

Made in Slovenia (EU)

Distributor:

Stular plus Ltd, Koroska cesta 26

4000 Kranj, Slovenia

www.tagson.eu



Introduction

Thank you for purchasing TAGSON PS-2/ES. This automated pneumatic packaging machine with built-in IndES Elastic Staple™ Fastening System powered by Avery Dennison with either one- or two-needle operation can be used as a packaging or tagging method for all kinds of products. The unique packaging system attaches the item on the card with stretchable elastic staples, and firmly secures the item fast by using less energy and producing less packaging waste while increasing customer interaction in point of sale.

The main purpose of TAGSON PS-2/ES is to be used in packaging applications. PS-2/ES enables you to pack and tag a wide range of product shapes and sizes.

TAGSON automated Pack & Tag machine is designed and made in the EU.

NOTE: The information contained herein is believed to be reliable, however, Stular Plus d.o.o. and Tagson make no representations concerning the accuracy or correctness of the data. This product, like any other, should be tested by customer/user thoroughly under end user's conditions to ensure the product meets particular requirements. Certain results may vary.

These operating & safety instructions will guide you through the installation and operation of the several system combinations available. Manual instructions provide all the information required for installation, operation, troubleshooting, and servicing. Please read also original Avery Dennison manual and safety instructions for IndES elastic staple fastening module.

Important safety instructions

This manual contains essential information for the protection of users and others from possible injury and/or equipment damage.

Read this manual before using the product, to ensure correct handling, and read the manuals of related apparatus before use.

Keep this manual in a safe place for future reference.

To ensure safety of personnel and equipment, the safety instructions in this manual and the product catalogue must be observed, along with other relevant safety practices.

Do not remove or tamper with any of the warning or caution labels on the machine.



Pay close attention to all warning labels and symbols!



WARNING! For your safety, the information in this manual must be followed to prevent personal injury or loss of life.

- Before installing the machine or maintenance always switch off main valve **18** to disconnect the air supply from the machine.
- Machine should always be on a flat solid surface.
- Before using the machine make sure there is enough light necessary for safe work.
- Do not use the machine for other purposes than packaging or tagging.
- Do not put any other objects on the machine and working surface.
- Make sure there is no one in close proximity of the machine when using it.
- Only trained operators can work with the machine. All operators must read the safety instructions and be familiar with them before use.
- Operator must always wear eye protection glasses when using the machine.
- Any interference with the machine and modification of its operation is prohibited.
- Always turn off air supply whenever the unit is not in use, or when servicing the machine. Do not remove or replace the needle without turning off the main air supply switch.
- Do not attempt to disassemble any component while the machine is connected to air supply.

- Disconnect air supply before attempting to replace any component.
- Never and under no circumstances try to apply more than 80 psi (5,5 bar) into the machine.
- Do not remove guards and do not operate the machine without having all guards in place.
- The needles are extremely sharp and can cause serious injury. Keep hands and clothing clear of needles while operating the machine.
- **Do not attempt to remove the enclosure, service, or disassemble any component while the machine is connected to air supply. Disconnect air supply before attempting to replace any component.**



CAUTION: Improper use of lubricants may cause machine failure and/or damage to the product.

- Do not use any type of lubricant on the fastener path. Use only compressed air to clean.
- Do not use any solvents on the machine.

Only trained personnel should work with pneumatically operated machinery and equipment. Compressed air may be dangerous should an operator not be familiar with it.

Assembly, handling or repair of pneumatic systems should be performed by trained and experienced personnel.

Do not service machinery/equipment or attempt to remove components until safety is confirmed.

- 1) Inspection and maintenance of machinery/equipment should only be performed after confirmation of safe locked-out control positions.
- 2) When equipment is to be removed, confirm the safety process as mentioned above. Switch off air and electrical supplies, and exhaust residual compressed air in the system.
- 3) Before machinery/equipment is restarted, ensure that all safety measures have been taken to prevent sudden movement of cylinders etc.



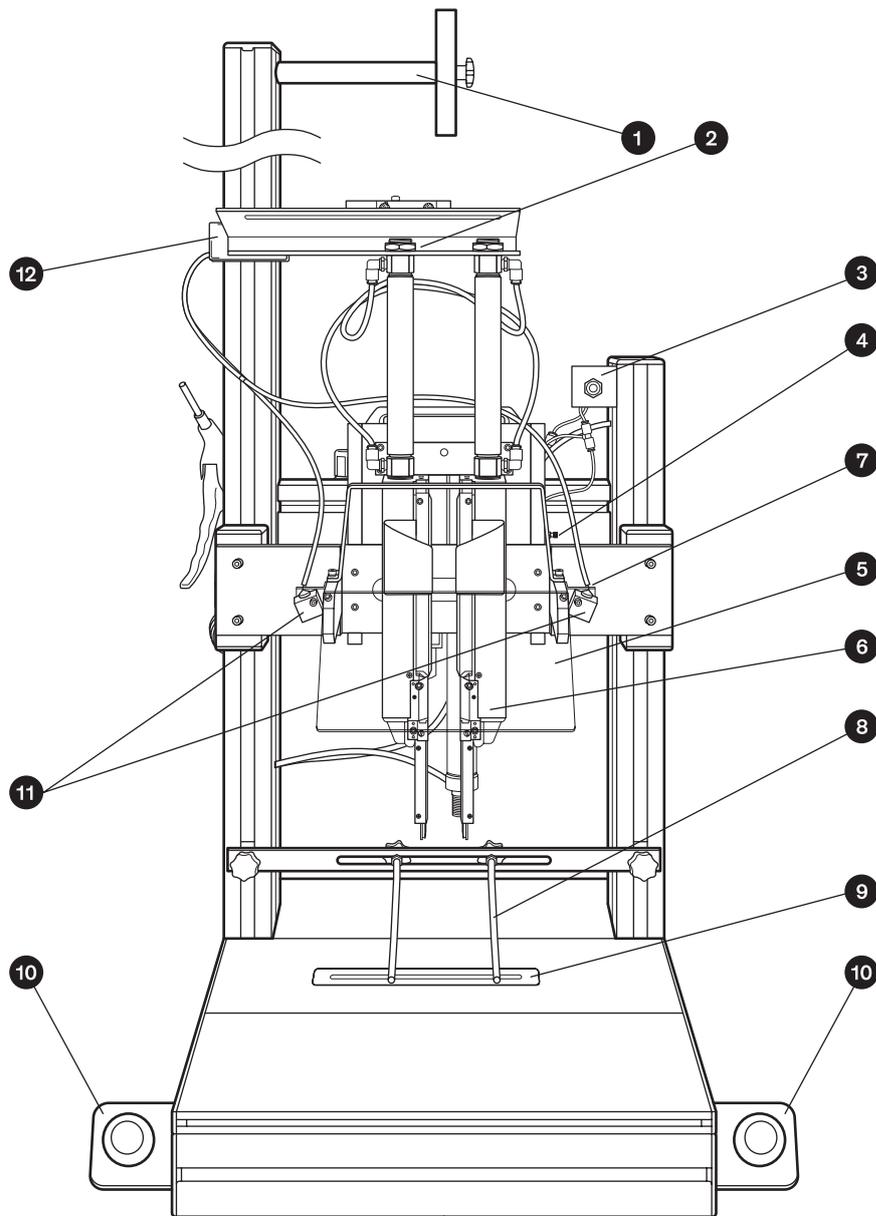
WARNING! Always turn off air supply **18** whenever the unit is not in use, or when servicing the machine.

Do not install the product before reading and understanding safety instructions.

If air leakage increases, or if the equipment does not operate properly, stop the operation. Unexpected motion can cause injury and equipment damage.

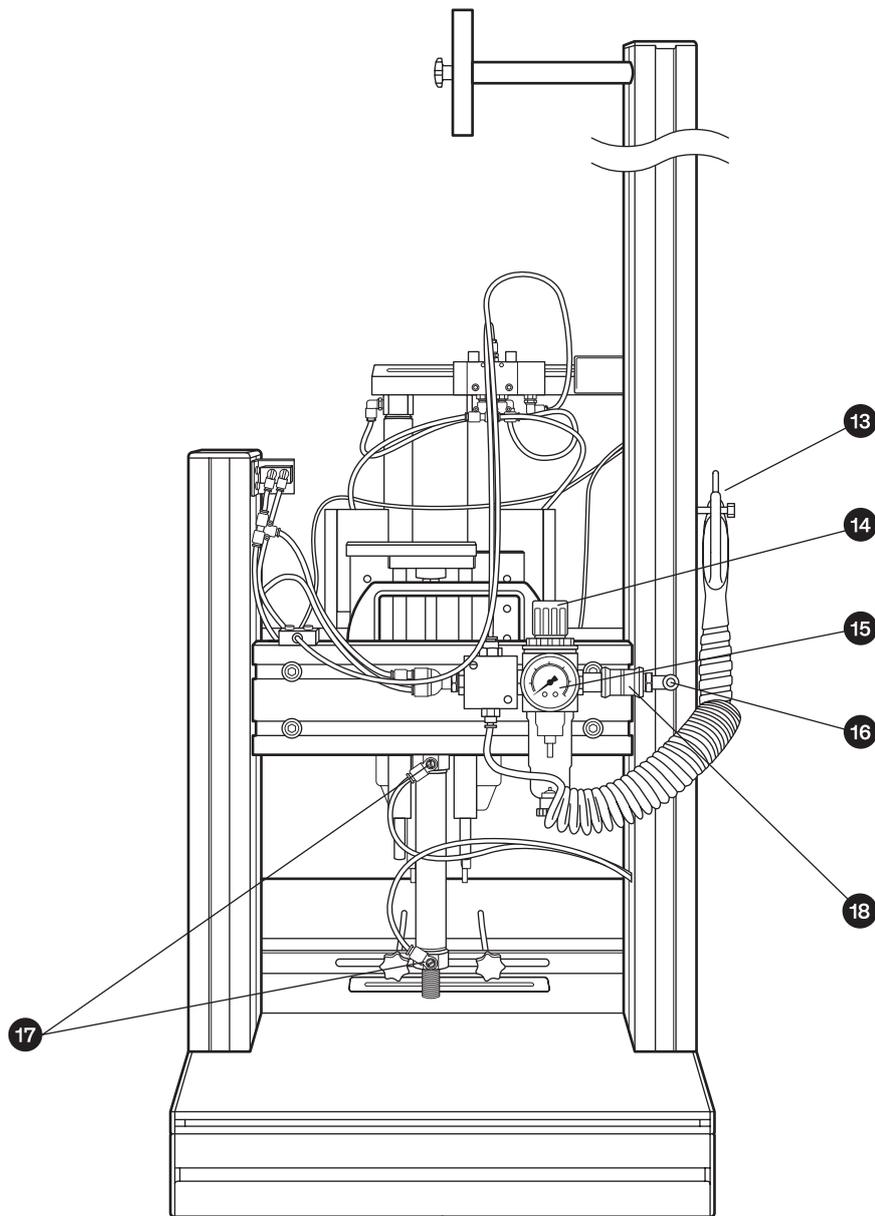
Confirm proper mounting. Make sure the piping is not disconnected or crushed. Connect the compressed air supply to the product and perform appropriate functional and leakage inspections to check it is mounted properly.

PS-2/ES (front view)



- 1 Reel holder for Elastic Staples
- 2 Screw for adjusting needle gap
- 3 Ejector rod switch
- 4 Ejector rod timing adjustment screw
- 5 Eye protection glass
- 6 Avery Dennison IndES module
- 7 Needle adjustment knob
- 8 Card / product holder
- 9 Needle plate (optional: brush anvil)
- 10 Two safety finger switches (optional: foot pedal)
- 11 Two adjustable laser markers
- 12 Laser marker switch ON/OFF

PS-2/ES (back view)



- 13** Air blow gun
- 14** Knob for air level pressure
- 15** Air filter regulator
- 16** The main air connector
- 17** Speed adjustments screw
- 18** Main air valve ON/OFF for the air supply

Unpacking the machine

1. Check the contents of the PS-2/ES shipping box. It should contain the following:

- One PS-2/ES machine
- One reel holder
- One safety and manual instruction book for PS-2/ES
- One safety and manual instruction book IndES Avery Dennison fastening system
- CE compliance sheet

2. Carefully remove the packaging from the machine.

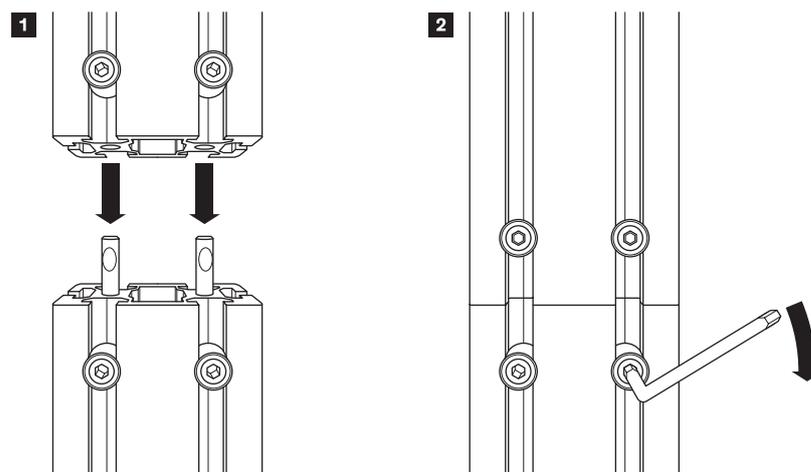
3. Visually inspect the machine and any accessories as well as shipping materials for damage.

- If the machine or any other item is damaged, notify the seller.
- If the shipping box is also damaged, notify the freight carrier as well as Stular plus company, and keep the shipping materials for the carrier to inspect.

Setting up the machine

Take the machine out of the box and place it on a flat, solid working surface.

Assemble the stand with the reel holder as shown in the picture, and attach with four screws.



Make sure the upper holder is firmly attached with four screws.

Insert Elastic staples in the machine as it is shown in the instruction book IndES Avery Dennison fastening system, see page 14–17.

NOTE: In order to work with this machine, you need air supply. Air supply should be regulated by a knob for air pressure level **14** and should not exceed 80 psi (5,5 bar).

Installation of air supply



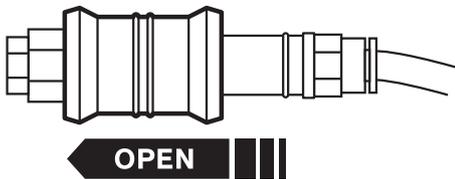
WARNING! Turn off air supply before beginning installation.

Before the first use:

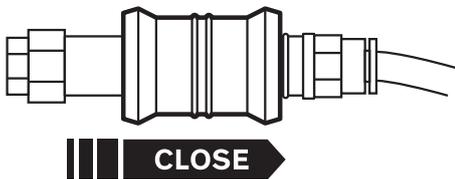
- Read safety and manual instructions.
- Close main air valve 18 on the machine before connecting air supply.
- Install air supply hose and open main air valve 18 on the machine.
- Regulate the knob for air pressure level 14 to ensure appropriate pressure (80 psi/5,5 bar).
- Operate the machine (see page 10).

Before applying air to the machine, make sure that the main air supply valve 18 is closed. Install the hose vertically in the main air supply valve 18. Open the main air supply valve.

To open main air supply valve 18 push it to the left.



To close main air supply valve 18 push it to the right.



Install hose to air line 16 in a vertical position on filter regulator 15 so that air flow is in the direction of arrow stamped on the unit's body.



CAUTION: When turning the main air supply switch 18 on, the machine will move to upper position. Keep hands and clothing clear of moving parts when connecting machine to air supply.

Blow out the air line to remove scale or other foreign matter before installing the Filter/Regulator.

NOTE: Be sure air line is clean and emptied of water. Air lines tend to condense moisture from the atmosphere, and precautions must be taken to prevent water from entering the attaching unit.

Before operating the machine, pressurize the air line with the knob 14 and check for leaks.

NOTE: Air supply should be regulated by the knob for air pressure level 14 at 80 psi/5,5 bar.



CAUTION: Maximum air supply should be 80 psi (5,5 bar).

IndES Avery Dennison module

TAGSON PS-2/ES has a built-in IndES Avery Dennison module **6**. The module is the main device that runs staples through the power unit. It is pneumatically operated, do not try to apply more than 80 psi (5,5 bar) into the machine.

NOTE: Before operating with the machine, please read safety and manual instructions for the IndES Avery Dennison Fastening System module.

Working with the machine

This chapter explains how to operate the Tagson Pack & Tag machine.

NOTE: Before operating, please check the air supply level. Air supply must be 80psi (5,5 bar).

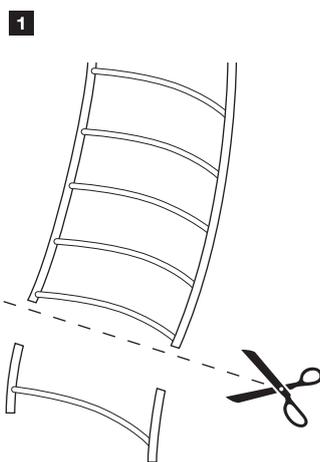


WARNING! Always turn off air supply whenever the unit is not in use, or when servicing the machine.

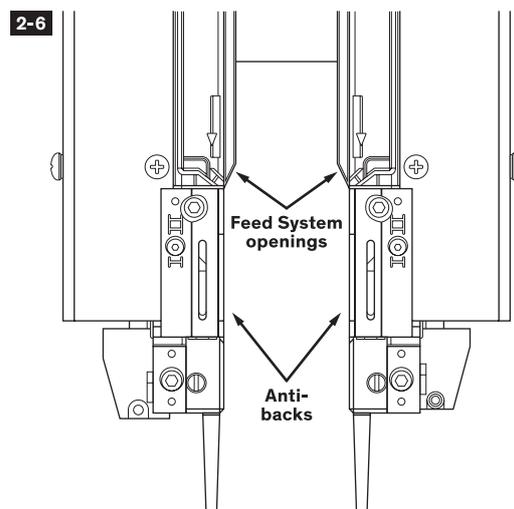
1. LOADING FASTENERS

With staple loaded to the Module Assembly:

Air Supply should be ON



Cutting the chain before loading



Module's Feed System description

1. Cut the staple chain rails just below a rung on the staple chain.
2. Insert one side of the staple chain into the opening in the feed system.
3. Insert the other side of the staple chain into the other opening in the feed system.
4. Push one side of the staple chain down until the bottom rung engages the anti-back.

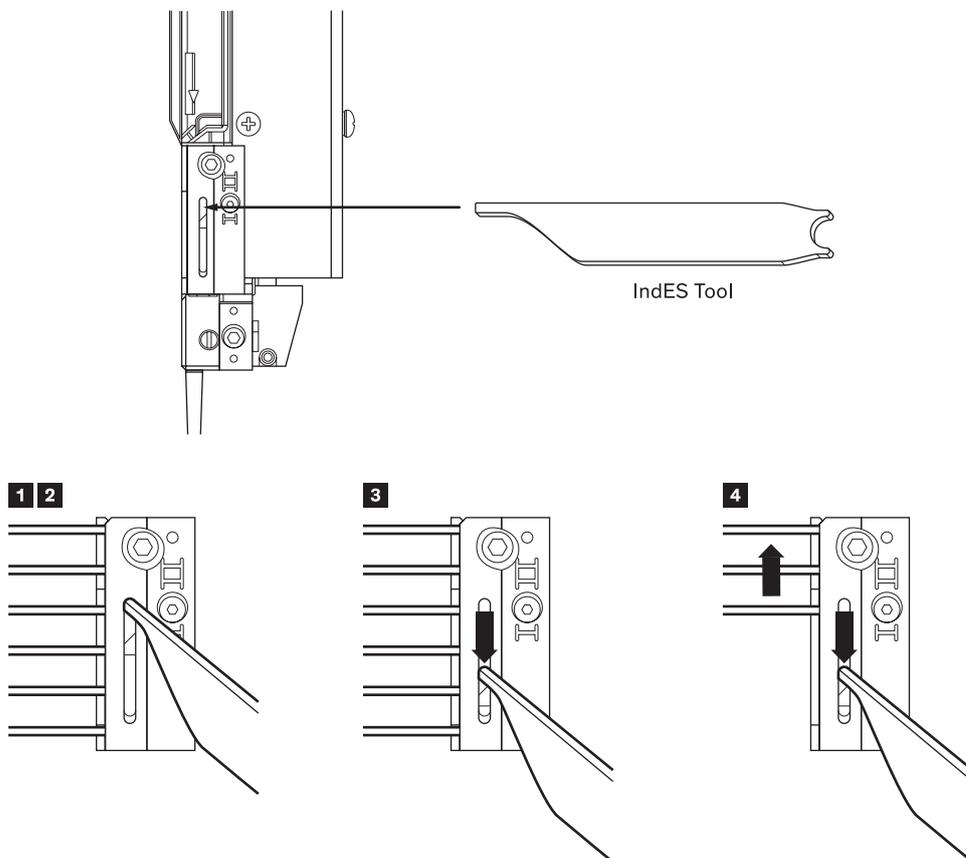
5. Push the other side also down until the bottom rung is also engaged with the anti-back.
→ Both sides of the staple should be aligned.
6. Holding the staple chain with both hands, pull up gently to ensure that the chain is engaged with the feed.
→ Both sides of the staple should be aligned.
7. Cycle the machine a few times to verify proper cutting and feeding.

NOTE: Use only original Avery Dennison IndES elastic staples.

2. UNLOADING FASTENERS

With staple loaded to the Module Assembly:

Air Supply can be either ON or OFF



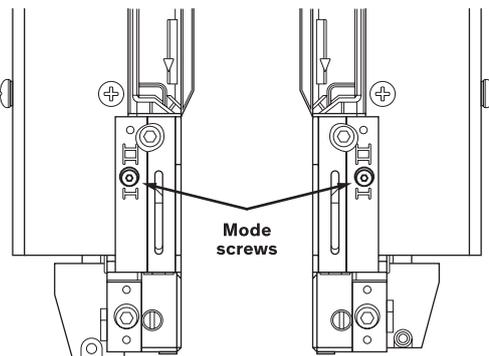
1. Insert the Avery Dennison IndES® Staples Removal Tool into the top of the slot in the Feed System (illustration shows Right Module).
→ An IndES ejector rod can also be used
2. Push the tool down to the bottom of the slot.
3. Drag the tool down until it contacts the Feed System Feed Pawl and moves the Pawl out of engagement with the staple chain.
4. Holding the tool down, pull back on the staple chain to remove it from the Feed System.
5. Perform the same operation on the other side.

3. ADJUSTMENT FOR SINGLE OR DOUBLE SHOT OPERATION

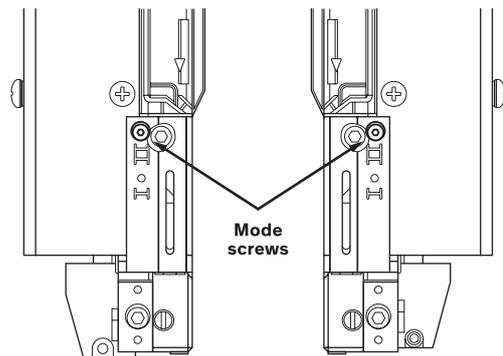
With staple loaded in the Module Assembly:

Air Supply must be ON

1. Locate the Single Shot mode/Double Shot mode screws on the Module's Feed Systems.
2. Move the screws to the "I" for Single Shot mode or "II" for Double Shot mode:
 - Both screws must be in the same mode for proper operation.
 - **Failure to move both screws will cause the machine to jam.**
3. Tighten the screws.
4. Cycle machine a few times to verify proper cutting and feeding.



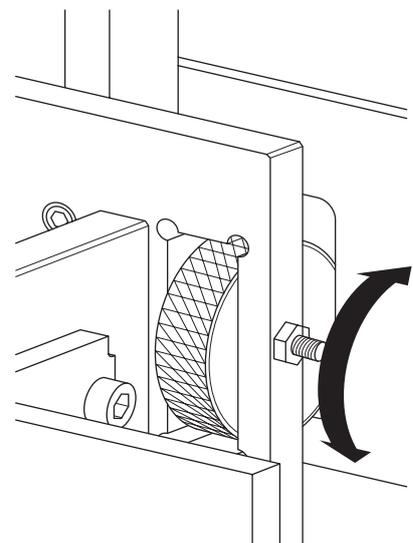
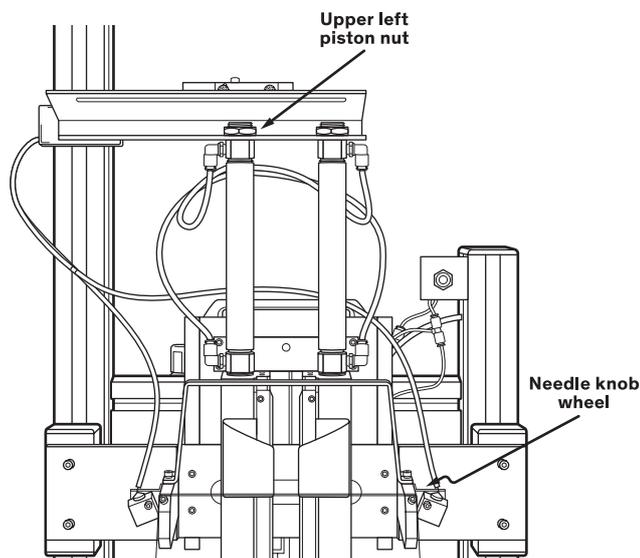
Mode screws in Single Shot mode



Mode screws in Double Shot mode

4. NEEDLE SPACING ADJUSTMENTS

1. Before adjusting the needles unscrew upper left piston nut
2. By rolling the needle knob wheel ⑦ you can adjust needle spacing
 - By turning the needle knob wheel clockwise, needle spacing will increase.
 - By turning the needle knob wheel anti-clockwise, needle spacing will decrease.
3. Tighten upper left piston nut



5. ADJUSTING LASER MARKER

Tagson PS-2/ES machine has two laser markers installed on the IndES module.
With laser markers you can point where needles hit cards.

- Turn off air supply with the Main switch 18.
- Install the card with product under the machine.
- Manually push the IndES module down by hand until the needles touch the card and leave holes in the card.
- Do not move the card while pushing the machine up to its highest position.
- Turn on air supply with the Main switch.
- Gently turn the laser screw 11 and adjust the laser marker to where holes on the card are.
- Carefully tighten the screw 11 so that the laser marker does not move.
- Make a test on the card without a product.



WARNING! Do not look directly into the laser. It might cause eye injuries.

NOTE: Turn the screws gently. Settings are extremely sensitive.

Before use



WARNING! Module needles are sharp. Use caution when removing and replacing needles, and during operation. Discard needles that are damaged or have punctured the skin.

Before starting, the following steps should be double checked:

- Air supply: filter regulator on the machine must be 80 psi (5,5 bar).
- Clear the working area.



CAUTION: Always wear protective glasses to prevent eye injuries, and keep hands away from the working area during operation.

How it works:

To complete the operation, machine has 3 cycles:

- CYCLE A: By pressing and holding finger switches 10, the module goes down.
- CYCLE B: When the module is at its lowest position, the machine activates the ejector rod and ejects an elastic staple.
- CYCLE C: By releasing finger switches 10, the module goes up.

NOTE: In order to activate cycle A, press finger switches with both hands at the same time.

1. STARTING TO OPERATE THE MACHINE

- Load staples.
- Press the switch for ejector rod ③ a few times to make sure the module ejects the staples properly.
- Position the product between the module assembly needles.
- Adjust the height of the card holder ⑧ and laser marker ⑪.
- Make sure the area is clear of everything but the product intended for fastening.
- Press finger switches using both hands ⑩ and hold the switches in place.
- While holding the switches, the module will go down to its final position and eject the staples.
- Release the switches ⑩ by lifting the module to its upper position. The machine will automatically load the next fastener for use.
- Remove the product from the working area.
- Make sure not to operate the actuation switch again until the machine has completely reloaded. **Premature actuation may cause the machine to jam.**



CAUTION: Make sure needles do not touch the product. This might cause needle break and product damage.

2. ADJUSTING TIMING OF EJECTOR ROD: CYCLE B

With the ejector rod screw ④ you can adjust the timing of the ejector rod (cycle B). By gently turning the screw, you set the timing of the ejector rod.

NOTE: The optimal setting of cycle B is when the ejector rod launches the fastener while the module remains at its lowest position for 0.5 sec.

Maintenance

This chapter explains the routine maintenance of the Tagson Pack & Tag machine and its spare parts replacement. After finishing, always clear the machine with the air blow gun ⑬, especially on the needle plate ⑨.



WARNING! Prior to any maintenance, replacement or repair, air supply must be switched off.

Compressed air is required to operate the machine, and air supply should be free of moisture or other contaminants. Supply must be capable of sustaining line pressure of maximum 80 psi/5,5 bar for table mount units such as Tagson portable Pack & Tag machine.

For maintenance of spare parts replacement, please see the original safety and manual instruction book IndES Avery Dennison fastening system.

Trouble shooting

This chapter describes symptoms, possible causes and solutions to problems one may encounter when operating the Tagson tagging machine.

Symptom	Cause	Action
Fastener breaking on insertion or Fastener not inserted correctly	Staple size too small	Use larger staple size
	Wrong needle spacing	Adjust needle spacing
	Wrong needle penetration	Check needle depth
	Worn out ejector rod or needle	Replace ejector rod/needle
	Card stock too tough	Use Heavy Duty Needle Add holes to card stock
Fastener not completely applied	Releasing Trigger too soon	Adjust timing of ejector rod
Fastener pulling out	Card stock too weak/thin	Change card stock
	Staple size too small	Try longer staple
	Needle slot damaged	Replace needle
	Fastener pulling back through hole	Use larger fastener
Fasteners not feeding on one or both sides	Debris in fastener track	Clean fastener track
	Faulty mechanism	Check Feed pawl tips and springs or feed cut shaft spring
Fasteners jamming on one or both sides	Faulty ejector rod	Replace ejector rod
	Debris in fastener track	Clean fastener track
Fastener not cutting	Worn out knife	Replace knife
	Worn out Blade Drive Spring	Replace Blade Drive Spring
	Insufficient air pressure	Check air pressure
	Low air flow	Watch air reg. gauge for pressure drop during operation
Ejector rod jumps out of the needle	Bended ejector rod or needle	Change ejector rod or needle
Unit not cycling properly	Not enough air pressure	Air pressure must be 80 psi

Spare parts list

The spare parts list only applies to the Tagson PS-2 machine without the IndES module. For the IndES module spare parts list, please see the original safety and manual instruction book IndES Avery Dennison fastening system.

Item	Part number	Description	QTY
1.	PV5218	PV5218 Pneumatic valve	2
2.	DVV18	DVV18 Valve for two-handed activation	1
3.	H32	H32 M5 Valve for manual switching	1
4.	P22	P22 Black switch 32Q4	2
5.	ALI	Ali link 1/8	1
6.	V32QS	V 32 QS 4 Mechanical valve	1
7.	PCU2575	PCU 25 75 DDA Pneumatic cylinder	1
8.	AMH2075	AMH 25 75 BA Guide cylinder	1
9.	FR14	FR 14 Filter-regulator 0-8 Bar	1

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