



Semi-automatic tray sealers TS-300 / TS-300 GF

**TECHNICAL MANUAL OF
INSTALLATION, USE AND MAINTENANCE**



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All adjustments, alterations, maintenance, etc. mentioned in this manual must be performed by qualified personnel for that kind of machines.

All equipment manufactured by TALLERES RAMON SL they conform to their standards EN292-1, EN292-2, EN60204-1 and EN60335-1 Council Directives 93/68 and 89/392.

Safety rules

- ✓ Read, understand, and follow all instructions in the manual and on the machine before starting the latter. Keep this manual in a safe place for future reference and for ordering spare-parts.
- ✓ Empower operate the machine only for people who have knowledge of this manual. Make sure you know how to stop the machine quickly.
- ✓ Do not put your hands near moving parts.
- ✓ Remove any obstacles that would prevent proper operation of the machine.
- ✓ Make sure to turn off the machine when you finish your work. Never leave a running machine unattended.
- ✓ Always unplug and wait for the machine to cool down before performing any maintenance.
- ✓ Never wear clothing or jewelry to lose that can be caught on moving parts.
- ✓ Never tilt the machine at an angle of over 30 degrees, to avoid falling and hurting people.



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1. Introduction

In this manual you will find the necessary information and instructions for installation, set-up, operation, use and maintenance of the machine.



This machine should only be used by people, who can read, understand and follow the warnings and instructions in the manual.

Read the manual carefully before putting the machine running. If in doubt about the operation or management of the machine, consult the manual again, and if after this the problem or concern is not resolved, contact your dealer.

2. Technical specifications

	TS-300 & TS-300GF
Maximum dimensions	679 x 675 x 582mm
Maximum packing dimensions	780 x 720 x 710 mm
Net Weight	75Kg
Gross Weight	84Kg
Resistor	1,5 kW

3. Warnings

- The security or legal liability will be void if damage from repairs and / or modifications not performed by qualified staff that is approved by the manufacturer of the machine or one of its authorized distributors occur. In case of malfunction, contact the supplier.



- Always clean the machine with products without solvents, as they may damage it.



may

- If performing maintenance must not have ever running on the machine.
ALWAYS REMOVE THE PLUG FROM POWER WALL.



- It is not allowed to pressure cleaning machine, as this could cause considerable damage to electronic components of the machine.



4. Precautions

4.1. Machine's assignment

In case of transfer of the machine it is necessary to inform TALLERES RAMON, S.L. the address of the new owner to facilitate sending any manual modifications to him.

4.2. General safety standards

Always follow the safety rules contained in this manual.

The manufacturer declines related responsibilities of a misuse of the machine.

The supply voltage must match the voltage at which the machine is plugged.

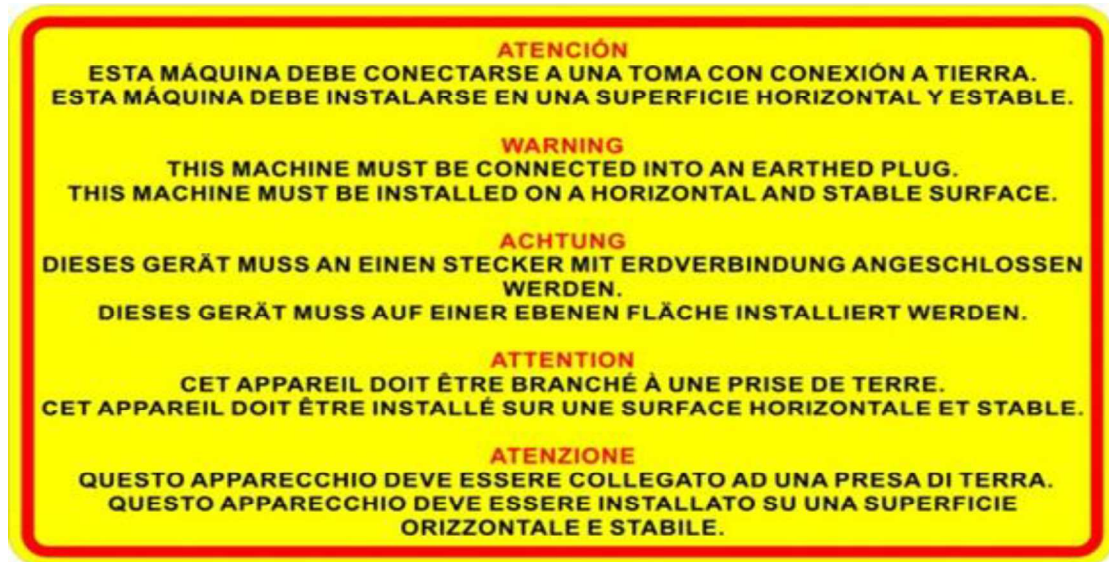
ATTENTION!

When the machine is not in use should be protected from caused involuntarily possible tampering. Sign out the cable from the mains supply

RULES FOR SAFE OPERATION.

Check, before starting work, the presence of any visible defects on the safety devices.

MAKE SURE:



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The machine is start-up should not make a strange noise. If so, stop immediately to find the possible cause. If not, warn technical assistance.

4.3. Before start-up

Do not operate or regulate in any way the elements of implementation, control, etc. if it is unauthorized and / or operation is not known.

Before starting work, the operator must verify the presence of any visible defects in the control and safety devices of the machine.

4.4. Connectivity Electrical

- Check that the voltage indicated on the label of the machine (Paragraph 10.2. Of this manual) is equal to the supply voltage.
- Always connect the machine properly grounded to prevent electric shock or hazards (the ground connection is green/yellow).
- The power cord must be loose, freely moving, and nothing should be placed on it.
- If the power cord is damaged for any reason, it must be replaced immediately.

- If there are problems with the machine and maintenance needs to be run, disconnect the machine from the mains before starting to work on the machine.
- If you anticipate that you will not use the machine for a long period of time, you should always turn off the power.

4.5. Gas (only in TS-300 GF model)

- Connect the hose from the gas bottle sleeves coupling to the back of the machine and secure with clamp sleeves.
- The diameter of the nozzle fitting sleeve for the gas bottle is 6 mm.
- Gas bottles must be always properly placed and secured. If the gas extraction function or the machine is not in use, the valve of the gas bottle should always be closed.
- The pressure of the reducing-pressure valve of the gas bottle must not be higher than 2 bar.
A higher pressure may damage the machine.



5. Warranty

The warranty of the machine is valid for a period of one year, counting from the day of delivery of the machine.

5.1. Restrictions

This warranty does not apply to:

- a) Repairs or spare parts reparations that are not necessary due to a defect in material and/or workmanship from the manufacturer and are caused by:
 - 1.- Repairing a damage following an accident.
 - 2.- Defects caused by improper handling and/or carelessness.
 - 3.- Repairs carried out by third party, other than an official representative and damage caused by repairs by the owner and include parts assembled from the time of these repairs.
- b) The warranty does not cover the gaskets, pistons and other parts subject to normal wear and tear.

- c) The electronic components of the machines do not fall under warranty.
- d) The manufacturer is not responsible for modifications outside the origin of the machine the ones that are set out in this document.
- e) The manufacturer is not responsible for failures caused by misuse of the device.
- f) The manufacturer is not responsible for the operation and quality of the machine if it implies the default in the present INSTRUCTIONS.

5.1.1. Limitations of liability and resources

The manufacturer and distributor are not responsible for the consequences nor damages, caused direct or indirectly by a defect.

6. Responsibilities



- a) Any liability which is not established by law will be rejected.
- b) The liability of the manufacturer and / or supplier does not in any case exceed the total value of the machine.
- c) With the exception of the general legal rules of public order, the liability to pay damages of any kind is not assumed (including business losses, real or personal property or injury to persons, whether related to the counterparty or third parties).
- d) The manufacturer and / or supplier shall not be liable for damages arising from use of the product that not be appropriate for the purpose for which it was purchased.
- e) We will reject any claim for loss of profits from the development of the machine.

7. Start-up and performance








a) Precautions before and after the start-up of the machine






BEFORE USING THIS MACHINE READ AND UNDERSTAND THE CONTENTS OF THE MANUAL IN ITS ENTIRETY

- Check the voltage is correct. 
- Check that the current intensity is enough. 
- Check that the safety elements have not been affected by transport and ensure that no one is in the danger zone.

8. Description of the functions

Symbol	Nº	Name	Description
	1	Display	It displays the sealing time, sealing temperature, and entry time of flushing gas.
	2	LED of emergency	This LED will light when the machine, for some reason, has been locked, and it will not switch off until it is unlocked.
	3	LED of temperature	This LED will switch on when the machine has reached the selected temperature and is ready for use.
	4	LED of end of cycle	This LED will light when the machine has reached the selected temperature and is ready for use.
	5	Button +	It serves to increase the value shown in the display.
	6	Button -	It serves to decrease the value shown in the display.
	7	Sealing time	When pressed, shows the current sealing time in the display, and allows modify it.

Symbol	Nº	Name	Description
	8	Temperature control	When pressed the display shows the current temperature, and allows modification.
	9	Gas injection timer	When pressed the display shows gas injection timer and allows modification.
	10	Reset	This button unlocks the machine, if it was locked for some reason.

Overview of the control panel



9. Use of the machine

First, once connected the machine to the mains we will press the switch located at the back of the machine.

Once the machine has voltage, we will select first the desired operating temperature; this temperature can vary depending on the type of material used, both in the tray-like film. If we must change this temperature, we must press the No 8 button and then, by using the nº 5 and nº 6, we must increase or decrease the temperature according to our needs.

When we have set the sealing temperature, we will select the sealing time. By selecting button nº 7, we indicate the actual sealing time, if we need to change, once the No. 7 button selected, we will press the nº 5 and 6 buttons to increase or decrease the sealing time.

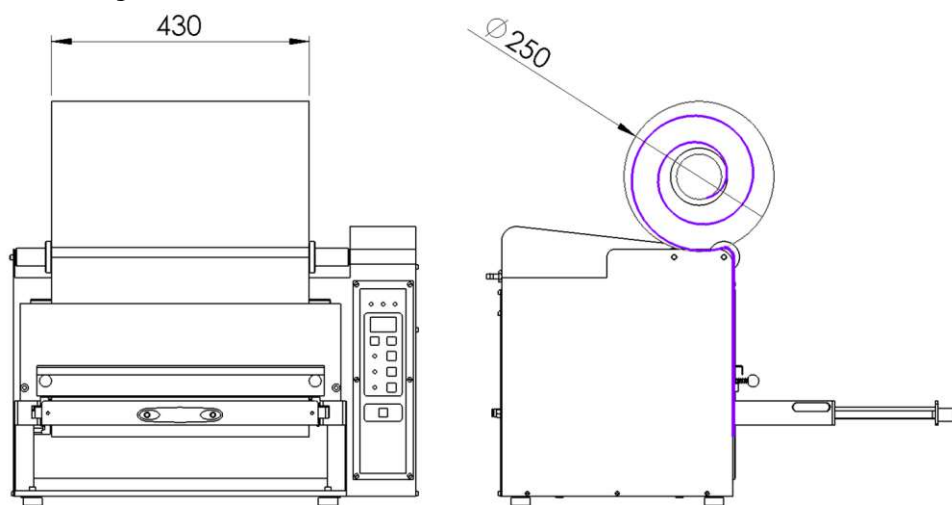
In case of using gas, the procedure is the same: we will press the number 9 key and through the nº 5 and 6 the time gas injection will be configured.

It is very important to leave this parameter to "0" if you are not using the option of gas.

After setting up the panel with the required parameters and once the machine has reached the optimum temperature (at that time the machine will beep) the machine is ready to work.

The first step we must do is placing the roll of film in the proper position; ALWAYS we will put the roll of film with the inside touching the tray. (see figure 1, page 20).

Then spend the film by the hold-down plate and let the film be pressed between the mold and the bar magnets.



Film position

When the machine is in this position you just have to put the tray in the mold and press inward. When the machine beeps an alarm, then you can pick-up the mold with tray sealed.

10. Maintenance

If you want the machine to have a long life is essential to make a good maintenance, regular and complete, this way will avoid breakdowns and sealing quality will be always optimal.

If you give normal use to the machine, it is enough to perform a complete inspection each year; however, if more intensive use is given, it is necessary to check completely every six months.

If there is any doubt about the maintenance detailed below or if the machines are not working properly, contact the supplier or manufacturer.



Repair work or maintenance should be done only by qualified personnel, and with the express consent of the manufacturer.

10.1. Maintenance plan¹

Element		Activity	Period	
			Break	Diary
1	Mold drawer	Cleaning		
2	Mold	Silicone gasket replacement		
3	Blade	Blade replacement		

10.2. Mold drawer (Cleaning)

¹ These intervals can change depending on the working conditions of the machine, such as location, environment, packaging products, etc. When working under unfavorable conditions for the machine, you need to make revisions more often.

If the vacuum process is complete, use a clean damp cloth to clean the drawer mold.



ALWAYS DISCONNECT THE PLUG FROM POWER WALL

10.3. Mold (Replacement silicone gasket)

As time goes by, it is likely to crack or break completely the perimeter silicone gasket belonging to the molds. In this case you need to replace it with a new one. In this case, simply remove the old gasket (use pliers to clamp if necessary), and insert the new silicone gasket. Make sure that the measure is indicated, without leaving gaps and without costing too much work to introduce the new gasket.

10.4. Blade replacement

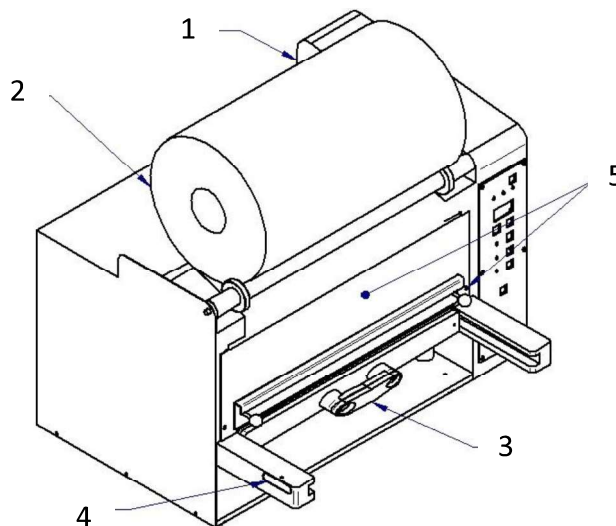
Is normal that over time, the blade will gradually losing the cutting edge until it not properly cut the film reaches the point. At this point, you need to change the old blade with a new one of the same characteristics.

11. Changing mold

In order to change the mold, these instructions should be followed, taking into consideration that all operations must be done carefully, because there are knives and hot plates inside the machine.

5 Allen wrench is required.

- Turn off the machine, by pressing the switch. (1)
- Remove the film and wind on the roll. (2)
- Remove the mold completely out (3) pressing the button (4)
- Remove the front plate that hides the mold assembly.
- Remove the 2 screws on the ends of the mold set.
- Unplug the electrical connector.
- Remove the mold completely.
- Place the new mold repeating the above steps in reverse.



Numbers in parentheses show the position of each element in the attached image.



12. Fault diagnosis

Problem	Reason	Solution
Very poor sealing quality	The sealing temperature is too low or too high.	Increase or decrease the temperature.
	Either the sealing time is too high or too low.	If that is not enough, increase or decrease the sealing time.
	The film's material is not compatible with the material of the tray	Look for a suitable film material.

If applying the solution to your problem does not solve it, contact your dealer or manufacturer.

13. Plates with features

On the right side of the machine base and in the lower right corner, the plate is placed according to the pattern shown below.

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MODELO					
Nº FABRICACIÓN					
<u>APARATO PREPARADO PARA</u>					
VOLTAJE	V	AMPERIOS	A		
POTENCIA	KW	FASES			
FRECUENCIA	Hz	MOTOR	r.p.m		



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