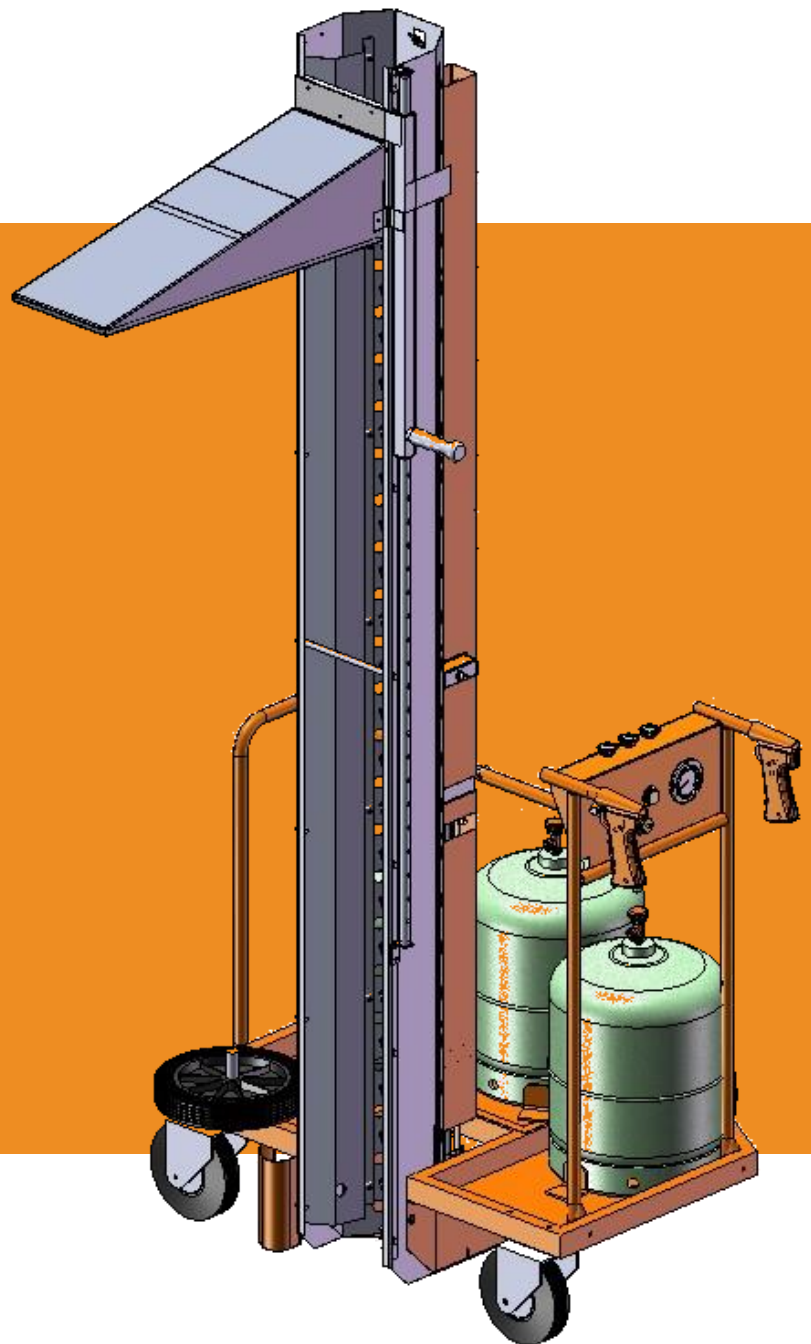




# TURBOPACK<sup>®</sup>

## Instructions Manual





# TURBOPACK®

## MOBILE SHRINK COLUMN

### INSTRUCTIONS MANUAL

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## WARRANTY

Each **TURBOPACK**<sup>®</sup> appliance is carefully manufactured from material of outstanding quality. All the **TURBOPACK**<sup>®</sup> component parts are subjected to a stringent control before the appliance is assembled and tested.

For all maintenance and replacement of parts, please contact a **TURBOPACK**<sup>®</sup> products distributor.

**This appliance must be used with the original hoses and valves.**

### **TURBOPACK**<sup>®</sup> **GARANTEES**

TOTAL GUARANTEE against any faulty manufacture on a new appliance that has not been subjected to any dismantling or modification, used in accordance with the instructions, and not having been subjected to extended usage. The total guarantee covers the exchange only of any recognized defective part(s).

6 MONTHS GUARANTEE provided that :

- ✓ the appliance has been used in accordance with the instructions,
- ✓ the appliance has not suffered from any dismantling other than those provided for in the instructions,
- ✓ the geometry of the appliance is intact.

This guarantee does not apply to the following wear and tear parts :

- ✓ Piezo ignitor
- ✓ Ignition wire
- ✓ Hoses

Any replacement part must be an original **TURBOPACK**<sup>®</sup> part. The manufacturer declines any and all liability and any claim in recourse in the event of non-compliance with the preceding instructions and provisions.

The SEFMAT Company cannot be held liable for accidents caused to people or property. In the case of dispute, jurisdiction lies solely with the Courts of Bordeaux, FRANCE.

**FOR ANY CLAIM UNDER THE GUARANTEE, PLEASE ENCLOSE THE COPY OF THE INVOICE FROM YOUR SUPPLIER.**

**YOUR GUARANTEE STARTS ON THE DAY OF YOUR DISTRIBUTOR'S INVOICE.**

## WARNINGS

### IMPORTANT SAFEGARDS

#### SAFETY PRECAUTIONS

1. **Do not use this appliance in regulated zones where there is a specific risk of fire or explosion.**
2. **Limit a working zone that is large enough to ensure that the face of column is always at a minimum distance of 1.5 m within this zone and indicate that access to this zone is forbidden for all other persons.**
3. **Always have a suitable fire extinguisher of an appropriate size within reach.**
4. **Wear gloves when using the appliance and never wear garments that are easily inflammable such as nylon or similar fabrics.**

Users of the **TURBOPACK®** must read this user's guide completely and must be trained for the applications that require the use of this appliance.

When using **TURBOPACK®**, basic safety precautions should always be followed:

#### **a. READ ALL INSTRUCTIONS.**

- b. This appliance is meant **exclusively** for professional use
- c. Before using, check all parts for proper function and damage to component parts.
- d. Hidden areas such as behind walls, ceilings, floors, soffit boards and other panels may contain flammable materials that could be ignited by **TURBOPACK®** when working in these locations. The ignition of these materials may not be readily apparent and could result in property damage and injury to persons.
- e. When working in these locations, keep **TURBOPACK®** moving in a back-and-forth motion. Linger or pausing in one spot could ignite the panel or the material behind it.”
- f. Close the valve of the gas cylinder when not in use for long periods of time.

- g. Press the trigger to empty the gas hose and release the pressure.
- h. Never heat a specific area continuously.
- i. Keep the working zone clean and remove all waste (wood, paper, other inflammable materials).
- j. **SAVE THESE INSTRUCTIONS.**

**This appliance, like all other gas appliances, consumes air and produces combustion fumes that contain CO<sub>2</sub> and CO. Exposure to high concentrations of the latter gas is lethal. Make sure there is sufficient ventilation in accordance with the amount of time the appliance is used**

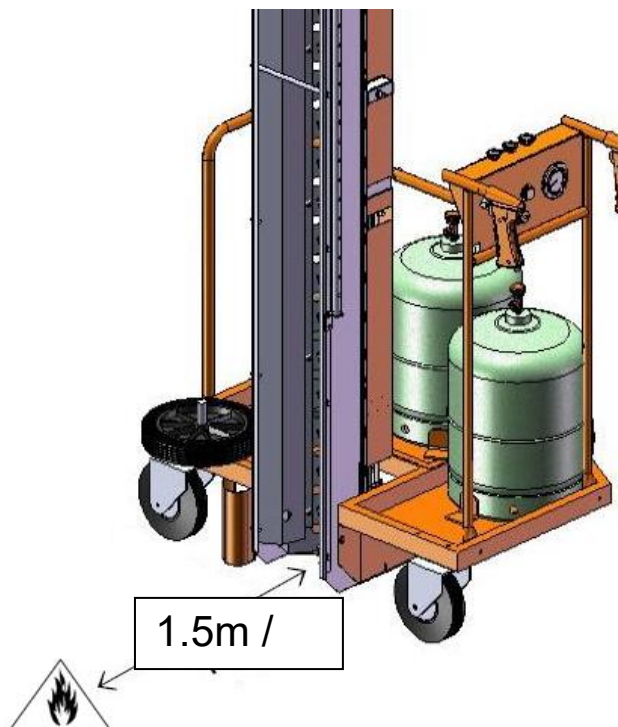
Never work in a basement.

Before using the appliance, make sure that you are conforming to the guidelines for using liquid gas.

In operation, this appliance produces a flame. Do not point the flame towards yourself, other persons or animals, towards the gas cylinder or the hose, or towards inflammable materials.



In operation, the appliance creates a **danger zone up to 1.5 meter / 5 ft** in front of the fire column.



We draw the attention of operators to the fact that within the danger zone, there is a possible risk of burning for persons and animals, and goods can be damaged or catch fire.

**CAUTION:** After burning of the flame, a burning risk exists until cooling of the head column.

To operate the appliance safely, you must follow the warnings mentioned above as well as the guidelines provided by the manufacturer of the materials being handled. The safety distance, the duration of exposure and the adjustment of the appliance for the different materials being handled, depend on the instructions provided by the manufacturer of the materials in question.

Always contact your **TURBOPACK®** distributor for all maintenance work and spare parts.

The **TURBOPACK®** works with propane.

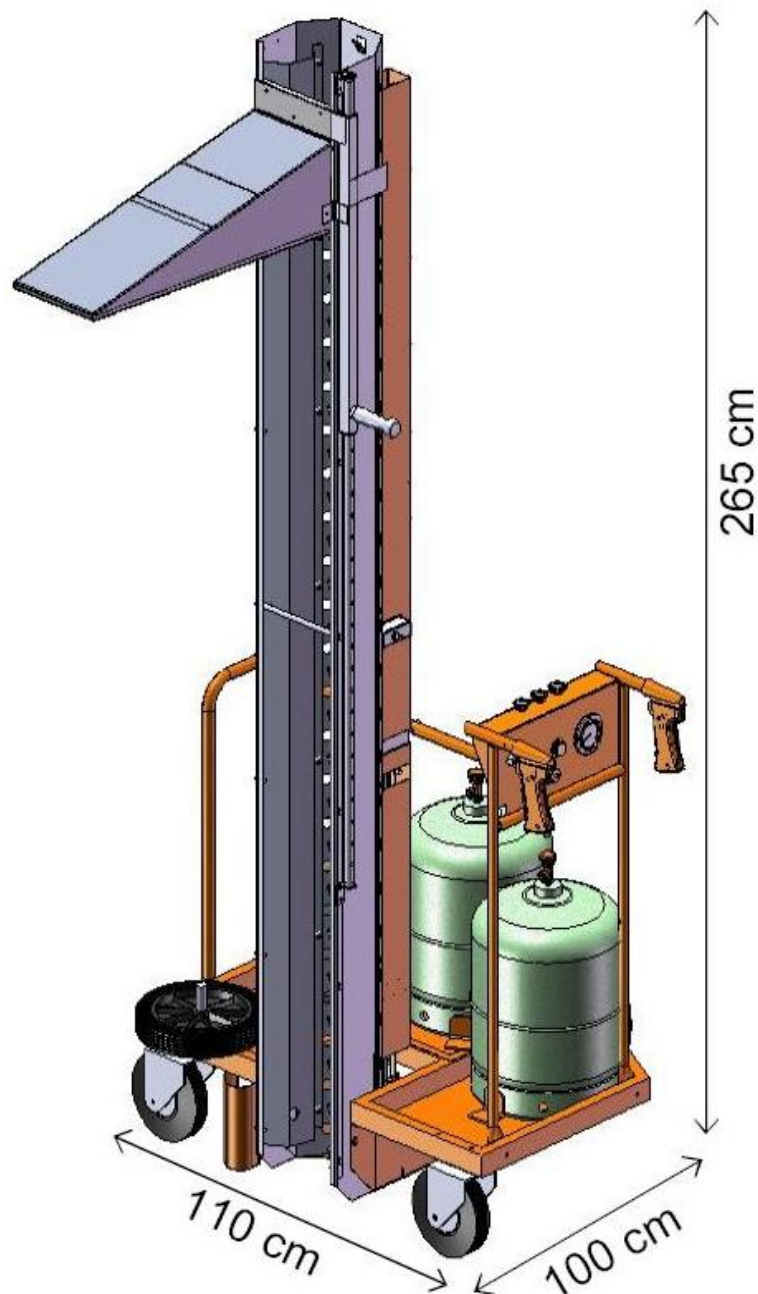
Ignition is performed using a piezoelectric igniter.

The TURBOPACK is incorporating several **safety mechanisms**:

- A **safety valve** system cuts off the gas supply in the event that the hose breaks or tears.
- An automatic safety device (so-called dead man's switch) cuts the supply of gas automatically if the trigger is released. This **stops the heating immediately**. This dead man's device must never be blocked in the open position in any way.

## TECHNICAL CHARACTERISTICS

Energy developed	190 kW
Heating power	163.500 Kcal (648,600 BTU's)
Consumption at 100 %	12 kg/h (26.46 lbs./h)
Weight empty	110 kg (242 lbs.)
Maximum shrinking height	220 cm (87 ")
Total height	265 cm (104 ")
Floor dimensions	100 x 110 cm (39 x 43")
Width of passage around the pallet	140 cm (55")
GAS USED	PROPANE in 30 lbs cylinders
OPERATING PRESSURE	2 to 3 bar





## ASSEMBLY AND PRELIMINARY TESTS

THE APPLIANCE IS DELIVERED IN THREE PARTS TO BE ASSEMBLED :

1. HEATING COLUMN
2. TROLLEY
3. CONTROL PANEL

### **ASSEMBLY** (see drawings).

1. Remove the trolley from its packing and check that the wheels are working correctly.
2. Remove the top of the cover containing the column.
3. Take the following out of the crate:
  - ✓ the connection hoses
  - ✓ the sensor wheel
  - ✓ the control panel
  - ✓ the protection and rigidity tubes
4. Without locking the bolts, assemble the following on the trolley:
  - ✓ the panel **A**
  - ✓ the protection and rigidity tubes **B** as per the diagram.
5. Before taking out the column, remove the housing **C** from the lower part, held by 2 wing-nuts (the housing has no passage for a tap) and remove the nut with the washer on the screw **E**. Remove the bolts **G** from the chassis **D**.
6. Place the trolley nearby in the right direction to receive the column.
7. Gently lift up the crate containing the column.
8. Gently remove the column from the crate.
9. Lift up the column; offer it up to the fork in the trolley, with the base resting on the chassis **D**. Engage the screw **E** in the housing **F** of the rigidity tube. Fit the fan washer and a nut, without tightening, so that the screw **E** can move freely.

10. With the 2 bolts **G** provided, connect the side panels of the column to the chassis **D**. Fit the head of the bolts on the inside of the column with a flat washer under the head. Fit a flat washer, a fan washer and a nut on the outside.

Tighten all the bolts of the control panel, of the protection and rigidity tubes and of the column side panels.

11. Install the gas hose **H** from the control panel to the threaded connection **I** of the column.

Lock the two nuts.

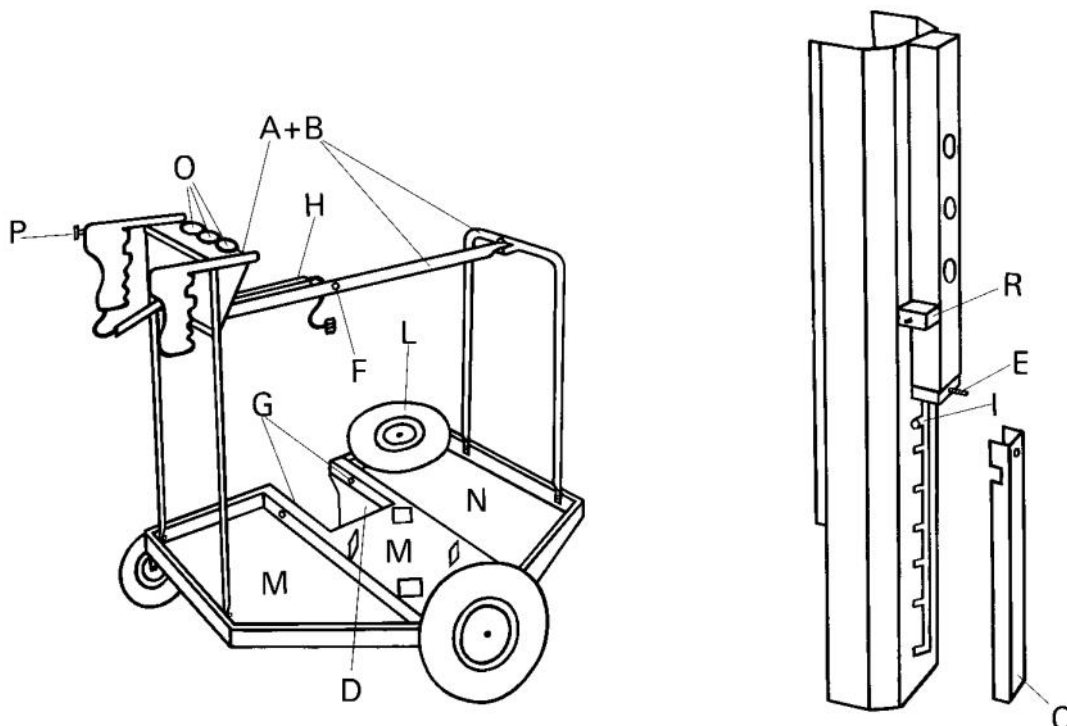
Do not refit the housing **C**.

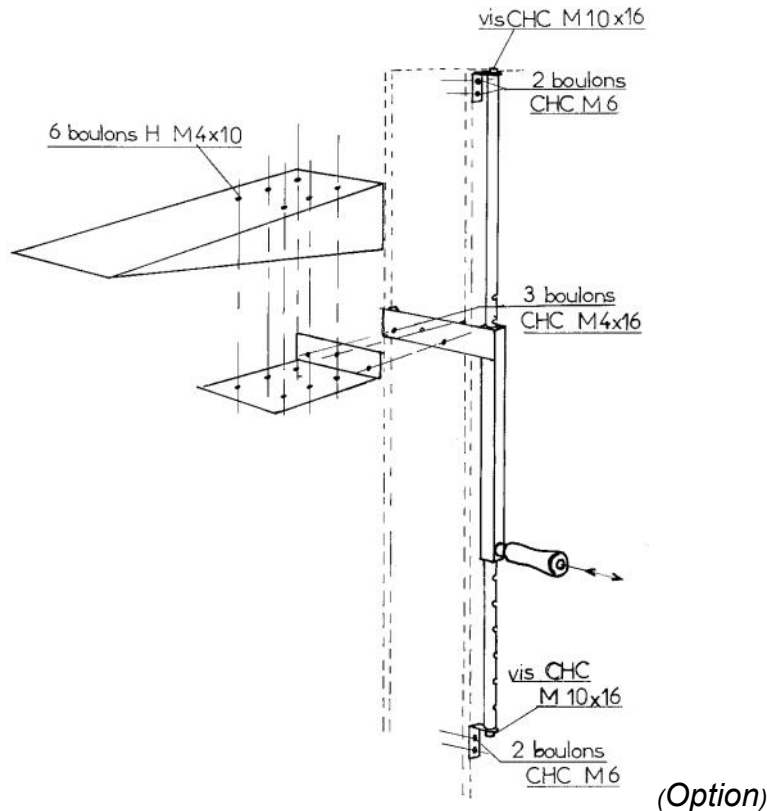
12. Check that the electrode at the end of the pilot burner is correctly positioned and actuate the electric piezo manually to check the spark.

13. Fit the sensor wheel **L** to the trolley.

14. Place two propane gas cylinders in the positions **M**, and one cylinder in position **N** if necessary.

15. Install the safety valves supplied with the machine on the cylinder taps. Check that the seals are in place before assembly. Position the cylinder taps to prevent unnecessary kinking of the hoses. Connect the 2 (or 3) safety valves to the control panel distributor using the flexible hoses supplied with the machine.





## PRELIMINARY TESTS

16. Open the cylinder taps. Prime the safety valves by pressure on the valve bodies for a few seconds to balance the pressure. Open the stop-valves **O** on the control panel. Using soapy water (bubble canister check all the connections of the hoses, taps and pressure relief valve situated between the cylinders and the trigger control handle.
17. Pull the black knob **P** with the right hand, press the trigger with the left hand. The gas flows to the burners. Immediately push the electric piezo ignitor knob **R**. The burners now ignite.
18. Letting the burners on, check with the bubble canister that the **H/I** connection is properly tight-sealed.
19. Release the trigger. As soon as the trigger is released, the safety catch is repositioned. To re-ignite the column, proceed as indicated in # 17.
20. Refit the housing **C** on the lower part of the column.

*Your **TURBOPACK**<sup>®</sup> is now ready to operate.*

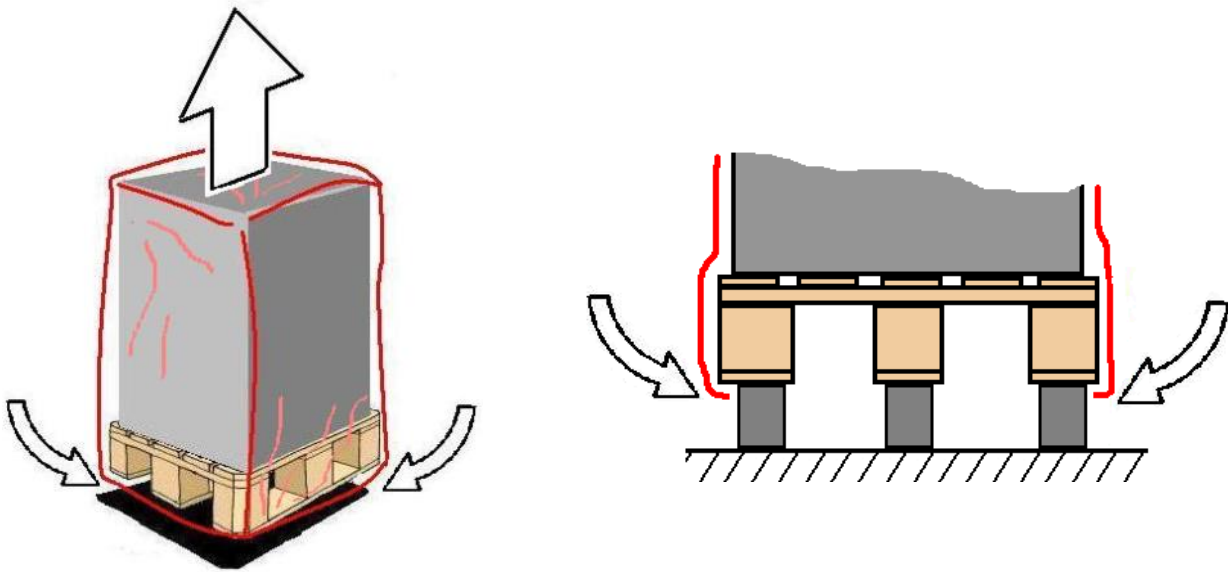
**IT IS ESSENTIAL THAT THE OPERATOR READS THESE INSTRUCTIONS UP TO THEIR VERY END BEFORE ACTUALLY OPERATING THE *TURBOPACK*<sup>®</sup>.**

## **OPERATING INSTRUCTIONS**

### ***INSTALLATION OF THE POLYETHYLENE COVER (see drawing).***

The pallet should be raised so that the four corner blocks are free, to enable the film to be shrunk under the pallet and its load. An accessory is available in the RIPACK range to hold the raised pallet: the CALPACK (Consult your dealer).

Slip the shrinkable cover over the pallet. Its perimeter should be roughly 5% greater than the perimeter of the pallet, and it should be long enough to allow shrinking under the pallet.



### **OPERATING THE APPLIANCE**

To shrink the PE film with the **TURBOPACK**<sup>®</sup>, you need:

- ✓ 2 standard cylinders of propane gas for a normal use
- ✓ 3 standard cylinders of propane gas for an intensive use or outdoors.

### **WARNING !**

**All cylinders must have the same gas load to prevent triggering of the safety valves.**

1. Open the taps of all connected cylinders.
2. Prime the safety valves fitted on the cylinder taps by pressing the valve body for a few seconds to balance the pressure.
3. Open the stop valves **O** on the control panel corresponding to the cylinders.
4. Adjust the pressure as required according to film thickness. Start your first three or four operations with a 3 bar pressure. Then increase pressure according to the needs. For outdoors work, it is recommended to increase the pressure.
5. Close the tap on the column situated 30 cm (1 ft.) above the pallet top.  
*In the case of the optional visor* : adjust the visor between 10-15 cm (1/2 ft.) above the top of the pallet. Close the tap on the column below the top of the visor.
6. Bring the **TURBOPACK**<sup>®</sup> to 30 cm of a corner of the pallet and the approximate distance determined by the contact wheel (it is not necessary that the wheel touches the pallet).
7. Pull the black knob **P** with the right hand, press the trigger with the left hand. The gas flows to the burners. Immediately push the electric piezo ignitor knob **R**. The burners now ignite.
8. Start shrinking at one corner of the pallet.
9. Push the **TURBOPACK**<sup>®</sup> around the pallet. Adjust your walking speed while estimating the shrinking quality. **NEVER STAY IN A FIXED POSITION.**
10. Once the column has gone beyond one side of the pallet, start the rotation of the trolley by bringing the wheel into contact with the next side of the pallet and continue shrinking without stopping.

Make a 90-degree rotation to prevent column to pitch into the pallet's corners (see drawing).

The same movement is to be repeated at each corner.

One single round is enough to complete the total shrinking.

It is recommended to operate **TURBOPACK**<sup>®</sup> around the pallet once or twice without lighting the column in order to get used to the handling of the appliance (especially for 90 ° rotations).

Once the pallet is shrink-wrapped, check for result :

⇒ **Film not shrunk enough** (wrinkles):

- ✓ Increase pressure, or
- ✓ Reduce distance to pallet (never remove sensor wheel), or
- ✓ Reduce path.

⇒ **Holes in the film** (too much heat):

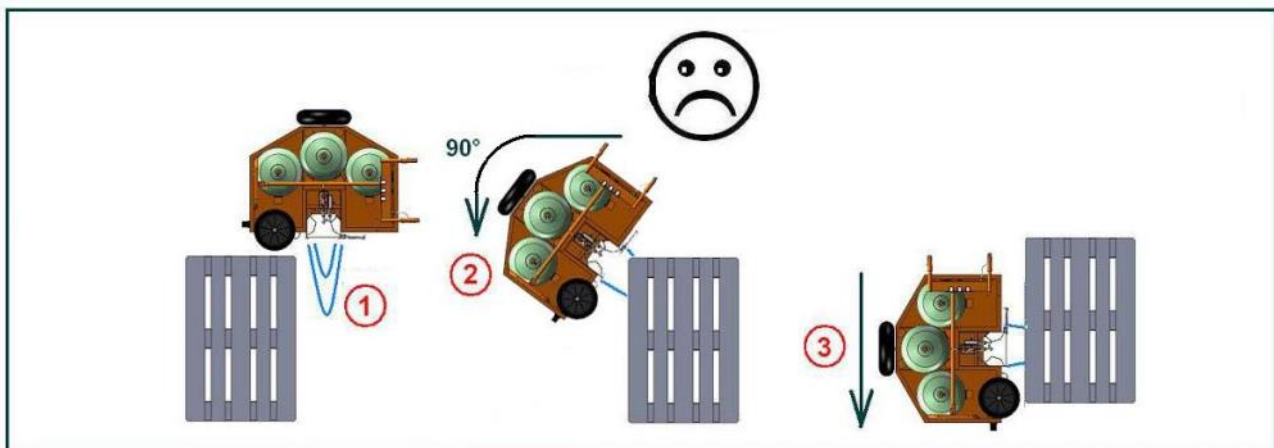
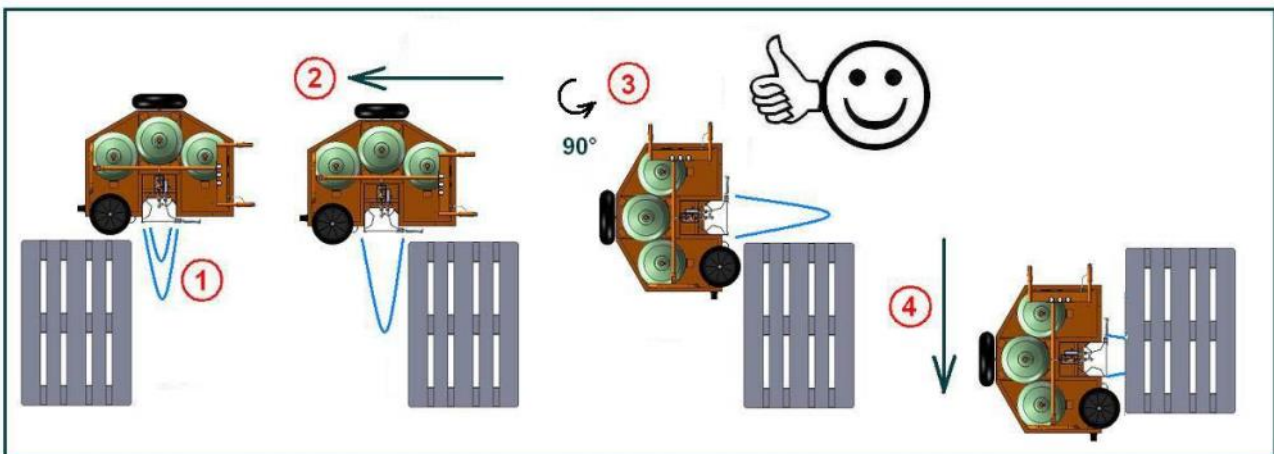
- ✓ Reduce pressure, or
- ✓ Increase distance to the pallet, or
- ✓ Increase path.

⇒ **If the film pulls up too much**, raise the pallet on a platform (CALPACK) to hook the film below the pallet during operation, and ask your film supplier for differently oriented film.

In case of inadvertent stop of the trolley during the operation (holes in the ground, obstacles...) release the trigger at once to prevent steady position in front of the pallet.

**Do not touch the film recently heated.**

**KEEP A STRICT SUPERVISION DURING 2 HOURS AFTER THE SHRINK-WRAPPING OPERATION.**



**MAINTENANCE**

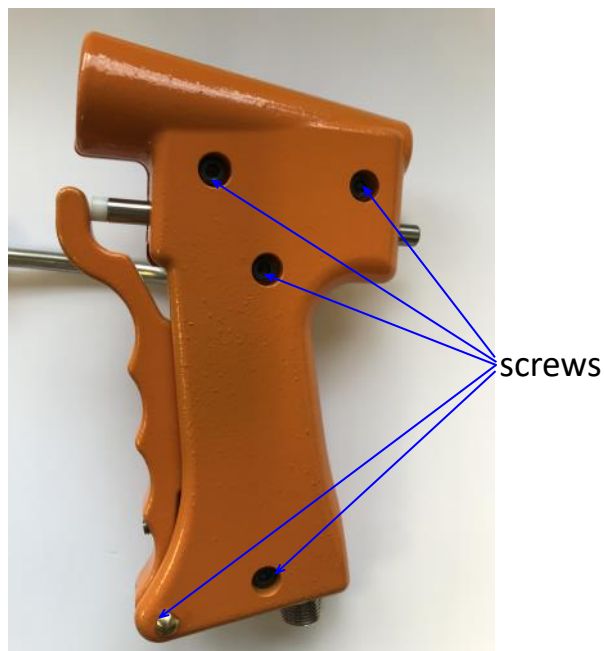
**TO GET THE BEST OUT OF YOUR TURBOPACK®**

TROUBLE	CAUSE	REMEDIES
The burners fail to ignite		⇒ Re-prime the safety valves
	⇒ No gas input	⇒ Check that the loads in the cylinders are more or less equal
	⇒ No spark at the plug	⇒ Check and replace if necessary the ignition wire or the piezo ignitor
The burners do not go out	⇒ Trigger stuck ⇒ Tap blocked	⇒ Close the general stop valves <b>O</b> ⇒ Change the gas tap assembly (see chapter below)
Poor heating	⇒ Intensive use with two cylinders that become frosted	⇒ Connect a third cylinder in series. <b>Caution:</b> the 3 cylinders must have an equal charge of gas and be at the same temperature.

THE SEFMAT COMPANY DISCLAIMS ANY RESPONSIBILITY IN CASE OF DISASSEMBLY OF THE **TURBOPACK®** BY A PERSON OUT OF THE DISTRIBUTION NETWORK AND / OR NOT QUALIFIED TO MAKE MAINTENANCE OPERATIONS.

## **Changing the gas tap set** (see pictures)

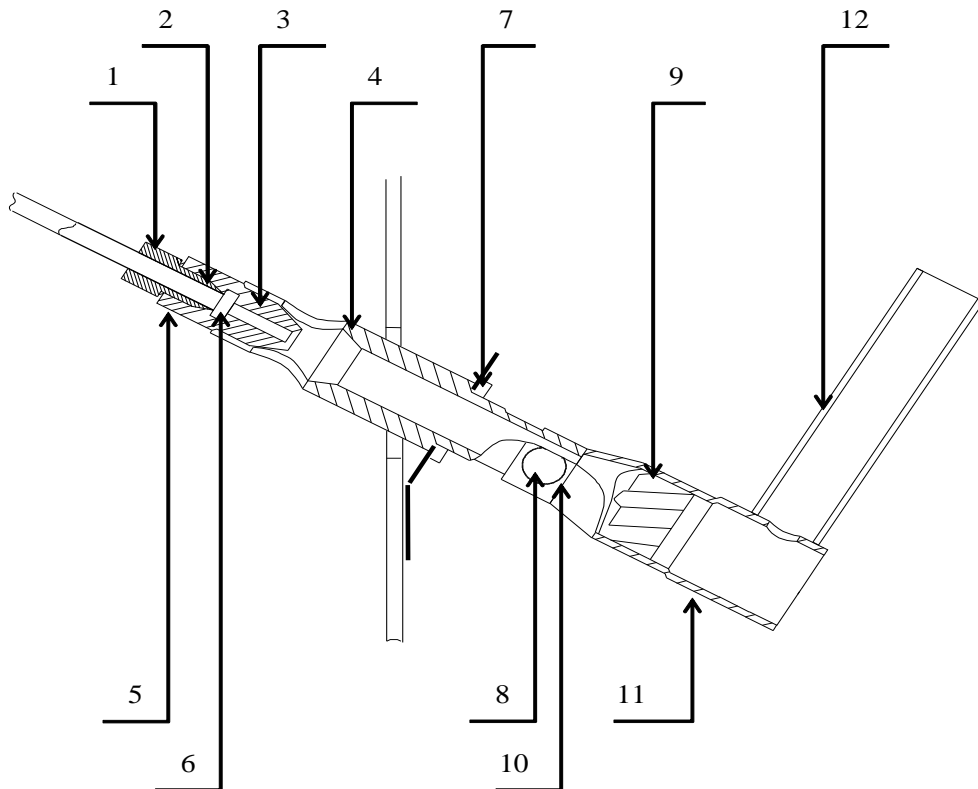
1. Release and remove the screws, leaving the trigger pin in place.
2. Remove the half-handle, taking due note of the arrangement of the parts inside.
3. Remove and replace the gas tap set.
4. Remount the half-handle and tighten all screws.





### **Cleaning the jets** (see drawing)

1. Remove the right rear housing.
2. Release the connection screw **1**.
3. Remove the copper tube, screw and tightness cone unit **2**.
4. Release the jet bearer sleeve **5**.
5. Remove the jet **3**.
6. Dip the jet bearer and jet unit in a trichloroethylene or dry petrol bath.
7. Clear the unit with a blast of compressed air at low pressure.
8. Inspect the jet hole to check it is perfectly clear. In the contrary, change the jet. NEVER INTRODUCE ANY TOOL IN THE JET HOLE.
9. Inspect the jet bearer and the inside filter.
10. Reassemble.
11. Check the right alignment of the wave tube **12** for the axial burners.
12. The side burners have lateral ignition hole. Check that they are correctly positioned with regard to the ignition hole of the axis burner.



### **Cleaning the burners**

1. Remove the inside housings of the column.
2. Release screws **8** and take down the burner **11**.
3. Dip them in petrol; brush the inside to remove all possible residues. Dry them with compressed air.
4. Remount the burners.
5. Check the right alignment of the wave tube **12** for the axial burners.

## **Replacement of the piezo igniter**

1. Disassemble the upper rear casing by removing the three wing screws.



2. Disconnect the spark plug wire by pulling the lug on the back of the piezo.



3. Unscrew the metal sheet nut on the rear and remove the piezo.



4. Replace with the new piezo, the face of the nut must be in contact with the place support, hand-tightened.



5. Connect the spark plug wire.



6. Reassemble the rear casing plate with its original screws and check the ignition of the **TURBOPACK**<sup>®</sup> by lighting the column according to the instructions for use.

**REPAIRS AND SUPPLY OF SPARE PARTS SHALL BE  
MADE ONLY BY THE MANUFACTURER OR ONE OF ITS  
REPRESENTATIVE.**

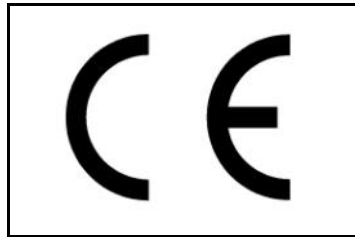
## SPARE PARTS LIST

ARTICLE CODE	PHOTO	DESCRIPTION
131004		Piezo igniter
131097		Black button for safety catch indexing
133001		Chain mesh 35 Ø 4 L 1250
133194		Mixing chamber for burner Ø 25
134002		3 ways distributor
134030		Column deflector
135011		Cage nut M6
135016		Counter-nut for mixing chamber
135074		Spacer on mixing chamber for burner Ø25
136004		Mesh filter Ø 7 mm (Stainless steel for gas tap and burner)
139027		Propane gas jet Ø 48/100
140006		Valve obturation seal
143001		Manometer
143003		Jet bearer connector

148016		Swivel castor Ø 250 mm
148017		Swivel castor Ø 250 mm with brake
148018		Inflatable wheel Ø 400 mm
148022		Stop valve
152116		Safety valve
231101		Safety catch set (new version)
233019		Complete left handle - gas control
233020		Complete right handle
233208		Standard Burner Ø 25 mm
233209		Bottom Lateral Burner Ø 25 mm
233212		Ignition Bottom Burner Ø 25mm
233214		Top End Burner Ø 25mm
233394		Special wrench for Jet screwing/unscrewing
234016		Adjustable pressure regulator

236049		Ignition wire + electrode
237014		Safety catch set (old version)
242002		Tubing set pressure regulator to gas supply (flexible + angled connector)
242005		Flexible pipe Ø 6 mm 1 m - General Gas Supply
242012		Flexible pipe Ø 6 mm 0.65 M - Column Supply
246030		Complete Handle Set for optional heat deflector
248106		Connection of pressure regulator-control handle
248194		Gas tap set with tube and connection





## **EC- DECLARATION OF CONFORMITY**

The manufacturer undersigned:

SEFMAT S.A.S., 7 rue de Betnoms, 33185 LE HAILLAN, France

Hereby declares that the product:

**TURBOPACK<sup>®</sup>**  
designed to produce a flame produced by the  
combustion of gas

Is in accordance with the directive 2006/42/EC of the European parliament and of the council of 17 May 2006 on machinery.

Le Haillan

The legal representative:

