

# WRAP 12

## User guide



## **POMI Industri ApS**

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Updated on 29.06.2017.

## **1. POMI Wrap 12 Wrapper**

Congratulations - You have chosen a line wrapper machine. It can be used for wrapping straw. If used for anything else, you must have a written authorization from the manufacturer.

The manufacturer disclaims any liability for damage to products and/or crops.

A tube of foil is formed, next the bales are fed and put on the ground. The pusher arms push the machine forward so that space is made for more bales.

## **2. Safety instructions**

### **FOR YOUR OWN SAFETY**

- Never work on the machine without the motor being stopped and the emergency stop on the electrical box being activated.
- Do not allow unauthorized persons within a distance of 10 m from the wrapper when it is in operation. There are two reasons for this: partly the machine may suddenly move, and partly oil may squirt from a damaged oil line. The bales may also tip over, if they are stacked incorrectly.
- When driving on the road, the machine must be lowered. The foil rolls must be placed so they do not interfere with the folding of the machine.
- Tidy the machine, especially around the motor, so that fire does not occur. Oil spillage must be removed before restarting the motor.
- Lights according to law must be working.
- Keep the remote control in a safe place so that you do not push the buttons by accident, e.g. if you carry the remote control in your pocket while changing the foil roll and then lean towards the machine accidentally pushing one of the buttons and starting the machine.
- When changing foil we recommend using ear protection.

### **3. EU DECLARATION OF CONFORMITY**

Manufacturer: POMI Industri ApS  
Abildvadvej 5, Thorup  
DK-9610 Nørager  
Tel. +45 98552000  
\_\_\_\_\_  
Company

Hereby declares that

Machine: Wrapper machine \_\_\_\_\_  
Make type, series no., year

- a) is manufactured in accordance with decisions made in the Council's Directive of 14<sup>th</sup> June 1989 about mutual approach of the member states' legislation as regards machines (89/392/EØF) changed on 20<sup>th</sup> June 91 (91/368/EØF) (93/44/EØF) and (93/68/EØF), under special reference to exhibit I of the directive of severe safety and health requirements in connection with design and manufacturing of machines.

Especially:

- a) is manufactured in accordance with the following harmonized standards (Directive article 5, paragraph 2).
- b) is manufactured in accordance with other standards and/or technical specifications.

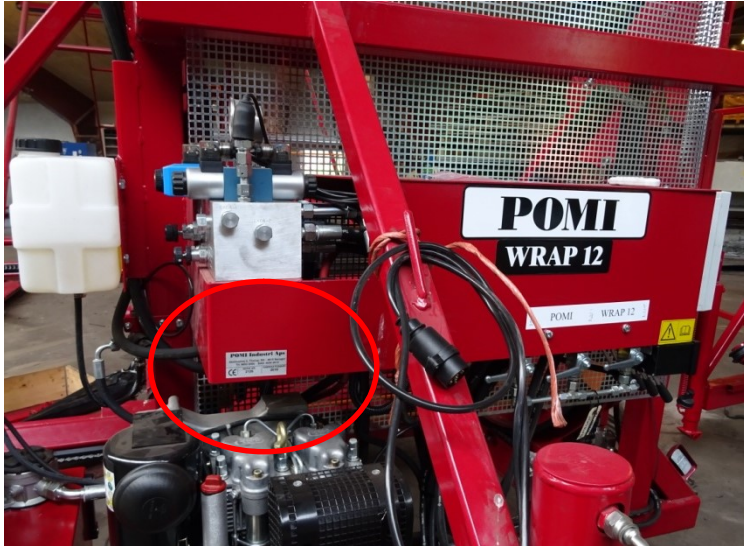
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Poul Mikkelsen  
Manager  
POMI Industri ApS

#### **4. Machine identification**

When ordering parts please state the serial number. You will find the serial number on the type plate on the left side of the machine (see ill.). The motor no. is found on the left side of the motor.



Serial no. \_\_\_\_\_

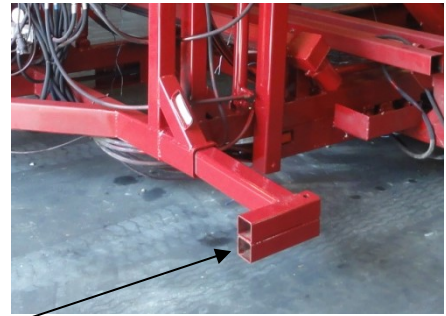
Motor no. \_\_\_\_\_

#### **5. For start**

- Fuel.
  - Check the motor oil.
  - Check that the hydraulic oil is in mid position.
  - Check the oil air filter.
  - Check lubricating oil level.
  - Study the motor instructions before start and heating of the motor.
- Motor revolutions are set to max. 2800.

## 6. Conversion from transport to wrapping

- Position the machine with a tractor or loader in the correct direction, in stacking position.
- Disconnect the tractor and remove the cable.
- Push the emergency stop.
- Start the motor according to the motor instruction.
- Switch the emergency stop out of lock-position.
- Fold up the machine.
- Lift the entire machine by running down the supports. First the 2 at the rear end and then the 2 in the front.
- Remove the two wheels and place the extender in the bottom of the machine.
- Install the wheel extensions in the corners (see ill.).
- Next mount the wheels.
- Run up the supports, first the front supports and then the 2 rear supports.
- Insert the square pipe that extends the pusher at the front end. (see ill.).
- Change the pusher from transport position to wrapper position (see illustrations).



Wrapper position



Transport position

- The machine is ready for wrapping.



## 7. Wrapping

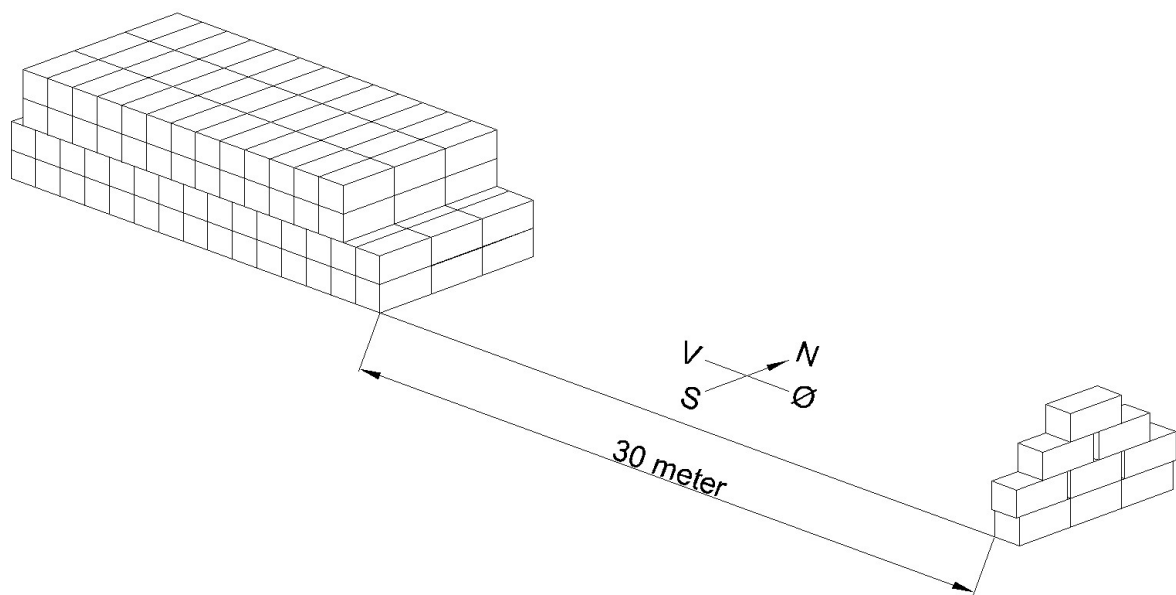
Start by fastening the foil to the two rods on the pusher. Wrap 8 layers of foil.

Unfasten the foil and let the machine run automatically until the foil reaches the end of the spears.



If the stack is supposed to curve, place the bales with air between them on one side and squeeze them hard together on the other side.

### 7.1. Positioning of bales for wrapping



## **8. Closing the foil tube**

When the foil tube is long enough to fully cover the ends of the last bales, wrap some extra rounds at the end of the foil tube to give a strong end surface. Cut off the foil at a suitable length.

Set up the machine to run by itself so that it runs as free of the stack as possible. Remove the rearmost of the three bottom foil rolls to allow for the mounting of wheels for transportation.

## **9. Change of foil roll**

Check that the foil roll bracket is positioned so that it can be reached when the guard in the rear end is open.

Push the emergency stop button and stop the motor.

Lift the hanger up.

Change the foil roll.

Lower the hanger again.

Start the motor and switch on the emergency stop.

.



## 10. Machine operations year 2014-2015

### 10.1. Electrical box

**Emergency stop**      Depressing this button will stop all functions in the electrical box. To reactivate turn the switch from locked position, and re-activate the function requested.

**Ready**                      When the emergency stop is released the lamp ready is lit.

**Start**                        This button starts the wrapping process. It can also stop it again if pushed once again.

**Forward**                    When pushing this button the pusher arms run out.

**Foil**                         When pushing this button, the wrapper rotates the foil.

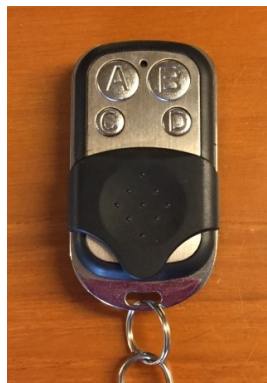
**Auto**                        Not applicable.

**Spear**                      Push this button to activate the chains on the spears.

**Backward**                When pushing this button the pusher arms retract.



### 10.2. Remote control



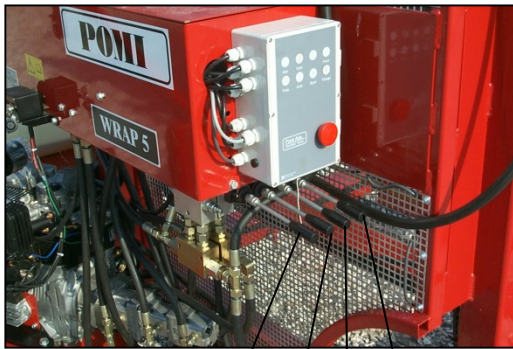
**A/Red** has the same function as **Start**.

**B/Grey** has the same function as **Foil**.

**C/Green** has the same function as **Spear**.

**D/Yellow** has the same function as **Backward**.

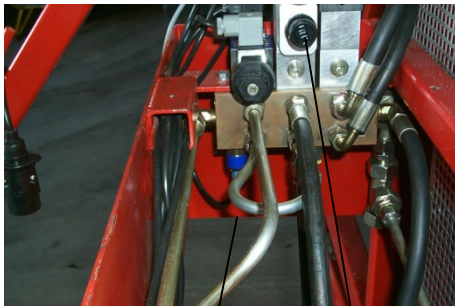
### 10.3. Hydraulic system



1 2 3 4

In front of the machine, 2 or 4 hydraulic handles are positioned.

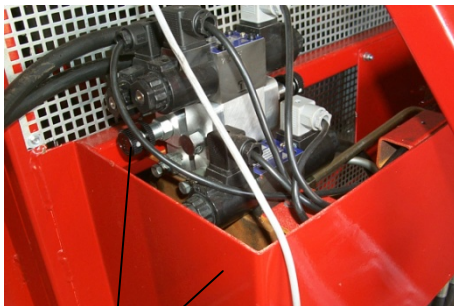
1. Adjusts the height of the tower in the front.
2. Adjusts the height of the tower in the rear end.
3. Raises the support in the front.
4. Raise the 2 supports in the rear end.



2 1

Valve 1) changes the speed of the chains fitted on the spears.

A screw is positioned in the middle of the pressure sensitive switch 2), which is to regulate the pressure of the pusher arms. If the pusher does not come back, turn the screw in and increase the pressure. If the pusher does not return but remains out due to overpressure turn the screw out and lower the pressure.



3

Valve 3) changes the speed of the chains fitted to the wrapper and consequently how much foil to put on the stack.

Hydraulic oil: Hydro Texaco HD Z LT 46 DIN HLP 46.

Hydraulic pressure:	Spear	120 bar
	Pusher bars	120 bar
	Wrapper	150 bar

#### 10.4. Foil guard




A foil guard is positioned in one corner, it consists of a bar sensing the wrapped foil, if only 1 layer of foil is used. If the foil tears the bar will fall down and activate a switch that stops the machine. Pushing Start or Foil will restart the machine, till the foil guard has contact with the foil again.

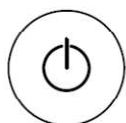
## 11. Machine operations year 2016 -

### 11.1. Electrical box operations



#### **Emergency stop**

Depressing this button will stop all functions in the electrical box. To reactivate turn the switch from locked position, and re-activate the function requested. When the emergency stop is released the lamp under  is lit and the machine is ready.



This button starts the wrapping process. It can also stop it again if pushed once again.



When pushing this button the pusher arms run out.



When pushing this button, the wrapper rotates the foil.



Not applicable.



Push this button to activate the chains on the spears.



When pushing this button the pusher arms retract.

### 11.1. Electrical box operations



Here you can change 2 times. The one who regulate how far the pusher go out before the foil starts to run and how long time it takes to move the pusher back.

Press ESC until start appears.

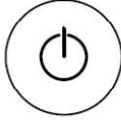

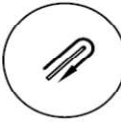

Press ▼ or ▲ to find the value you want to change. Press OK to confirm.

Press ► or ◀ to find the number you want to change.

Press ▲ to find at larger number or ▼ to find a smaller number. When you have the desired number press OK to confirm.



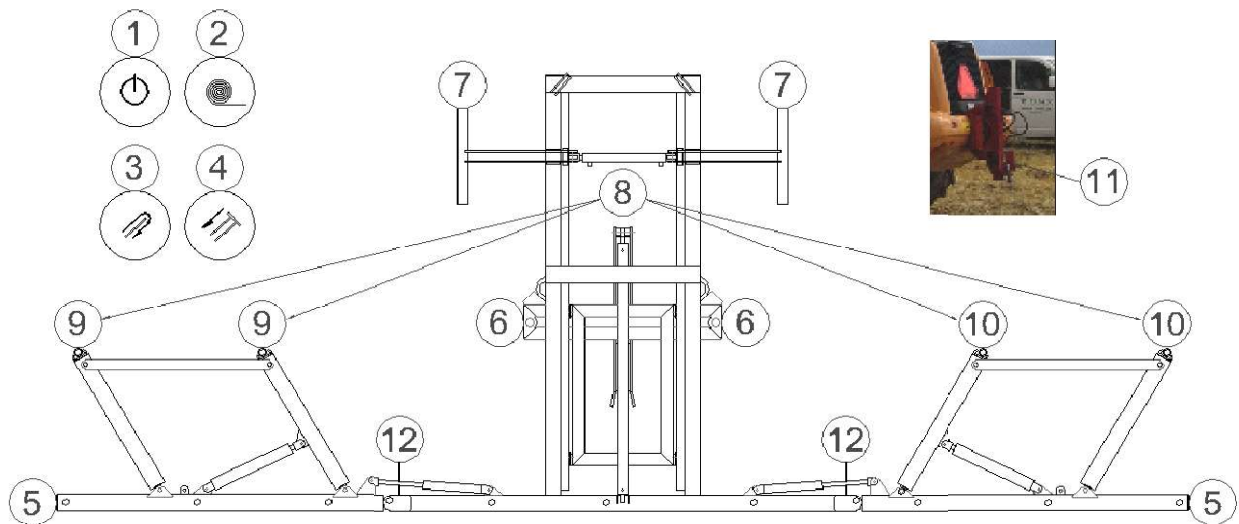
## 11.2. Remote control

Button	Function	Same function as
1	This button starts the wrapping process. It can also stop it again if pushed once again.	
2	When pushing this button, the wrapper rotates the foil.	
3	Push this button to activate the chains on the spears.	
4	When pushing this button the pusher arms retract.	
5	Balefork - Clap up	
6	Balefork - Raise/lower spear	
7	Balefork - Push off	
8	Balefork - Tilting spear right and left	
9	Balefork - Tilting spear left	
10	Balefork - Tilting spear right	
11	Hitch hook on loading maschine	
12	Balefork - Light on/off	

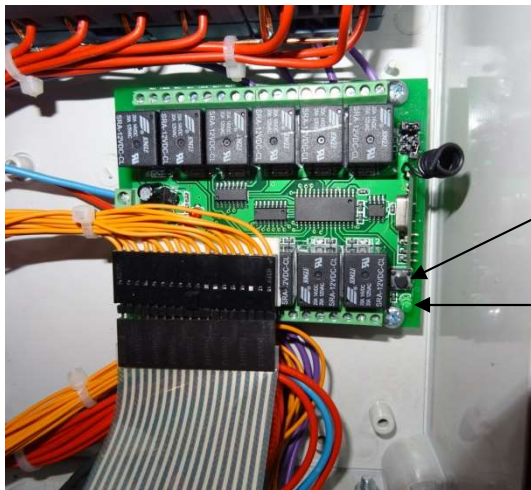


### 11.3. Funktionsoversigt fjernbetjening

There is a functional overview included. This you can bring along in the loading machine.



### 11.1. Programming the remote control



If you have to program a new remote control you need to open the electrical-bok and press the black button A then the lamp B lights up. Then press the 1 button on the remote control. Then the remote control is ready for use.





## 11.2. Hydraulic system



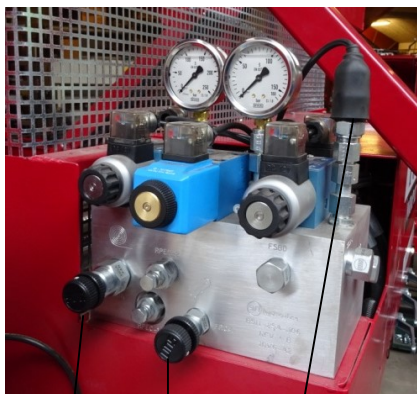
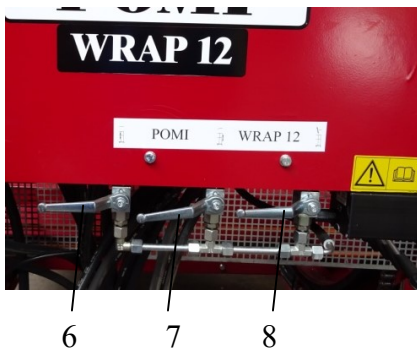
In front of the machine, 5 hydraulic handles are positioned.

1. Raise the support in the right rear end.
2. Raise the support in the left rear end.
3. Raises the support in the front.
4. Is to fold the machine up and down.
5. Here are 3 functions.

If you open the ball valve 6 you can tightens/loosens the wrapping chain on the left side.

If you open the ball valve 7 you can tightens/loosens the wrapping chain on the right side.

If you open the ball valve 8 you control the kink on the two spears.



9. The valve changes the speed of the chains fitted on the spears.
10. The screw in the middle of the pressostat is to control which pressure the pusher has to turn by. If the pusher is not fully extended, the pressure can be raised by tightening the screw. If the pusher does not return, loosen the screw.
11. The valve is to change the speed of the wrapper and thereby how much plastic is put on the stack.

Hydraulic oil: Hydro Texaco HD Z LT 46 DIN HLP 46.

Hydraulic pressure:	Spear	120 bar
	Pusher bars	120 bar
	Wrapper	150 bar

### 11.3. Foil guard



A foil guard is positioned in one corner, it consists of a bar sensing the wrapped foil, if only 1 layer of foil is used. If the foil tears the bar will fall down and activate a switch that stops the machine. Pushing Start or Foil will restart the machine, till the foil guard has contact with the foil again.

### 12. Bottom foil bracket



The bottom foil bracket consists of some boxes placed on the chassis frame for three rolls of bottom foil. The foil is fed through the foil tube and the bales are positioned on it.

### 13. Maintenance

- Clean around the motor daily or when needed, to avoid fire.
- Grease the bearings daily.
- Lubricate the pusher arms and chains with chain oil. When replacing chains, only use original chains.
- After the first day adjust, the wheels, after that adjust twice a year.  
Tightening torque = 100 Nm.

#### 13.1. Check before season

Make sure the machine is stopped and the emergency stop activated.

- ☐ Oil change
- ☐ Change oil filter
- ☐ Change fuel filter
- ☐ Clean air filter
- ☐ Change hydraulic filter
- ☐ Check hydraulic hoses, lubricating oil hoses and fuel hose for damage.
- ☐ Check hydraulic oil stand
- ☐ Check lubricating oil level.
- ☐ Pre-stretchers
- ☐ Wrapping chains must have been tightened
- ☐ Check the distance between the chain rails (W=1177 mm)
- ☐ Pull chains for wrapper must have been tightened
- ☐ Spear chains must have been tightened
- ☐ Wheels must have been adjusted (Tightening torque = 100 Nm).

Start the machine

- ☐ Turn the foil guard to the other side so that it has no contact with the sensor.
- ☐ Electrical box and remote control have been checked on all channels.

#### **14.    Good advice**

- To ensure the optimum protection against the wind it is recommended to work against the most dominant wind direction so the foil forms a roof.
- It is recommended to work on a plane surface where any water will sink into the ground.
- If the land rises, it is recommended to work uphill.
- It is a good idea to place the stack in the shelter of a windbreak.
- In order to prevent the foil from slipping in the overlap, it is best to wrap in calm weather.

## 15. Optional equipment

### 15.1. Bale fork



The operator is responsible for ensuring that the bale fork complies with the local rules for transport on roads.

### 15.2. Foil roll basket



The basket contains app. 30 rolls and 4 rolls of bottom foil.

The inside dimentions of the basket: 1150 x 2700 mm Height = 800 mm.

## 16. Problems

Problem	Solution
Machine	
The machine will not run	– Check at the rear of the machine if emergency stop is pressed.
Insufficient motor output.	– Change the fuel filter – Clean air filter
The pusher arms cannot push the bales..	– Check the hydraulic pressure (120 bar).
The pusher arm runs out and stops; the foil rolls and the spear keep on rotating.	– Loosen the pressure switch.
The pusher runs out a little and then retracts.	– Tighten the pressure switch.
The pusher does not retract fully.	– Lubricate the pusher and tighten the pressure switch.
Carrier link breaks	– Check that the chain rails have the correct spacing $W = 1177 \text{ mm}$ – Check the bottom chain guide.
Wrapper stops.	– Check the oil pressure (150 bar). – Chains are not lubricated – Chains are too tight – Chains are running off track.
The plastic is not pre-stretch enough.	– Tighten the chains so that the pre-stretchers do not hang so much.
Straw	
Moisture in the bottom of the stack.	– Use extra bottom foil.
Moisture in the top of the bales.	– The straw must be dry and rip before it is pressed and wrapped. – It might help to make holes in the sides of the foil. – The sooner the straw is used the fewer problems. We recommend the straw to be used before mid-spring.