

## WIRE-0 BINDING WM MANUAL

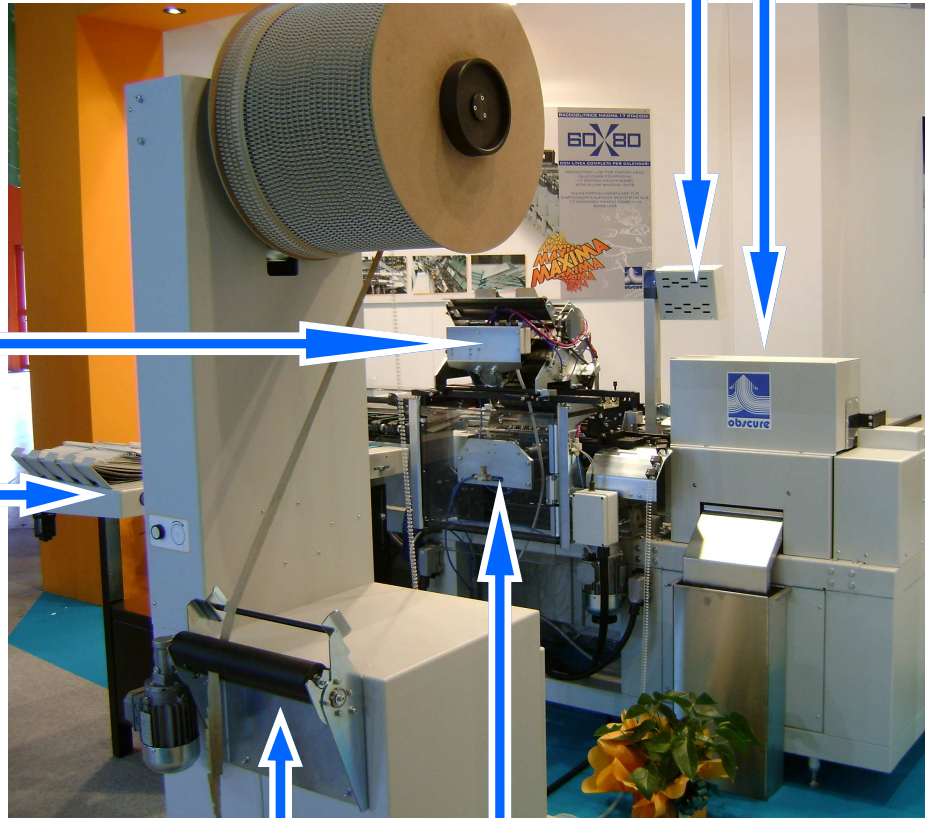


TOUCH SCREEN

PUNCHING

HANGER  
SHAPER

DELIVERY  
CONVEYOR



SPOOL  
UNROLLER

BINDING UNIT

Wire-0 binding machine for the following applications:

- punching,
- Punching and inserting the wire-o,
- Wire-o binding with or without hanger,
- Binding with the wire-o, using material already punched, excluding punching

### Technical Data

- Min Binding Size: mm500x500 and mm500x700 (wire-o side mm500)
- Max Binding Size: mm105x105 .
- Kit standard 1/4" (Wire-o set on request 3/16" e 5/16", 3/8").
- Standard Pitch:: 3:1" (on request 4:1").
- Maximum perforating thickness: 4 mm "a time" (depending on the pitch, the material, the calendars wideness)
- Max speed (mechanical): 1800 c/h
- Touch-screen control
- Variabile spool unroller
- Shingle delivery conveyor

### Accessori

Binding kit: 3/16", 1/4", 5/16", 3/8".

Device for shaping and inserting the hanger: It can store up to 500pieces of pre-cut wire and 70 hangers ready to be inserted.  
Wire-o diameter 2 mm, hanger's lenght from 70 up to 350 mm.

**The Maxima WM set up is automatic and intuitive by using the touch screen**

Produced copy

To allow Wire-o

To allow hanger

1234567

RESET

set counter

manual machine

machine alarm

loops n. 12

automatic cycles  
on = green  
off = red

clamp cycles off  
only punching

start line

system options

stop line

When flashes red, the machine is in "manual mode" To re-start, deactivate the button: "manual mode"

Allowing this function, clamps will work continuously

This function permit only the perforation. Clamps in this mode doesn't work

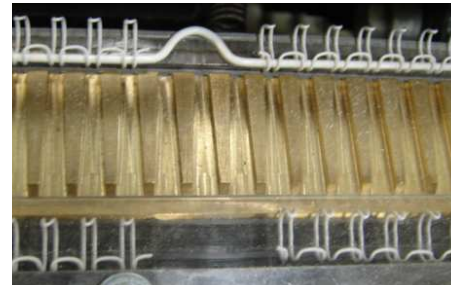
Start \Stop line  
In every pages of the touch screen you can stop and restart the machine

Using this button you can access to all functions

hanger insertion	spiral insertion	
delivery speed adjustment	job options	
manual clamp adjustment	manual spiral movement	
punching	spiral unroller	
view error	machine speed	
start line	back	stop line

The program **“allow hanger”** permit to insert the hanger on the calendar  
 Activating it,the button became green and allow the inserting of wire-o and hanger,while when you deactivate it,the button will be red and permit only the inserting of the wire-o without the hanger

**“exclusion upper sensor”** permit to work without the “hanger-unit” device installed on the machine.  
 If it is not active,the machine doesn't work

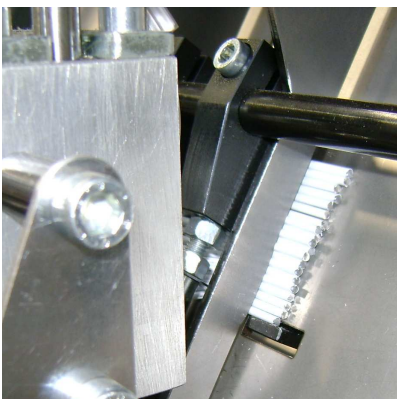


*Allow hanger active:cutting of the wire-o and inserting of the hanger*

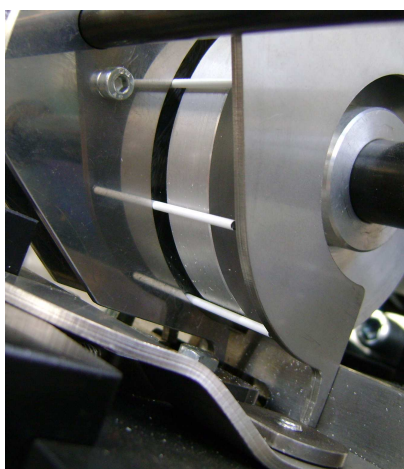


*Allow hanger deactivated: the wire-o is a unique piece*

**“hanger control”** if it is activate, when missed the hanger the machine will stop



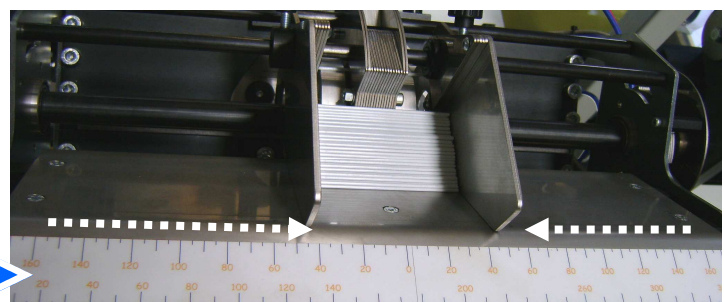
**“manual cycle accumulation hanger”**: when there are only few pre-formed hanger,pressing this button the charger will recharge automatically .  
 Maximum capacity : 80hangers

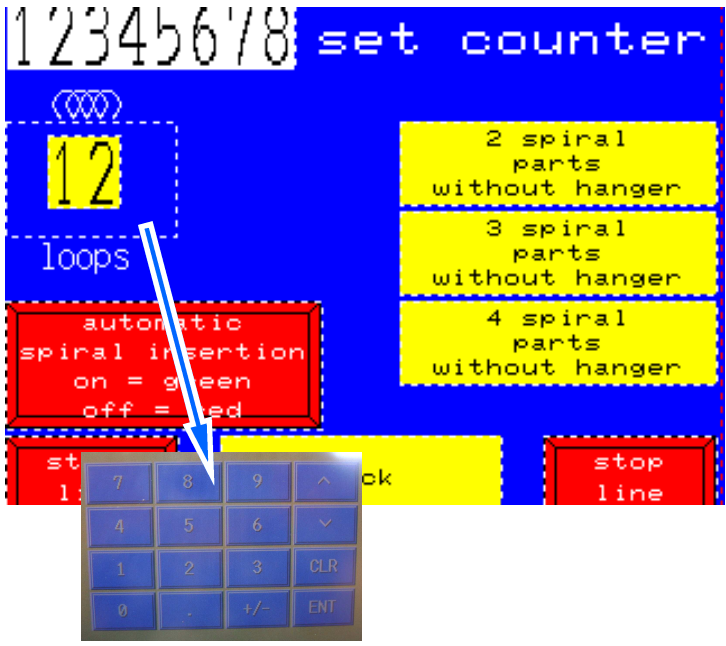


**“manual cycle”**: leads the hanger (that are not still formed), one cycle singularly then another one, in the hanger-unit

**“reset hanger-blockage alarm”**:an acoustic signaller advise you if an hanger wasn't taken,or if some of them are blockade in the charger. Verify and clear it if it is necessary ,then press the button.  
 The machine will stop to sound and the button “reset hanger-blockage” will stop to flash  
 Re-press again:  
 “Manual cycle accumulation hanger”

In the upper part of the hanger-unit there is a scale,you can use it to measure the hanger that are to be formed.

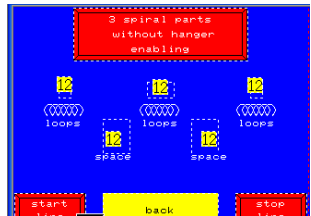
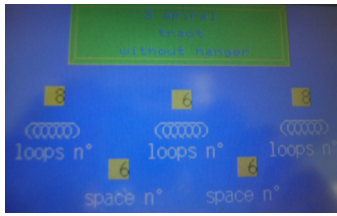




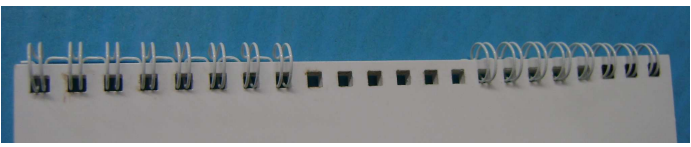
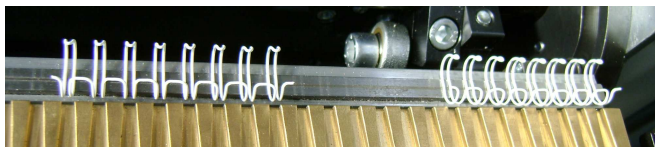
job options

**“Activation automatic wire insertion”**

Pressing the button with the image of the rings, will appears a window with the keyboard, here you must digit the number of rings that you need for your work.



If this option is ACTIVE, it permit to selection 2, 3 or 4 pieces of wire; you can choose also the number of rings that you need and the spaces between them



Two pieces of wire with a space between them  
 It depends on your requires of work, but if you need, it is possible to have the part between the wires punched or not; if you don't need it, eliminate the stamps from the punch system



Three pieces of wire with free-clear spaces between them, you can obtain it with the program 4 (part of wire without hanger)

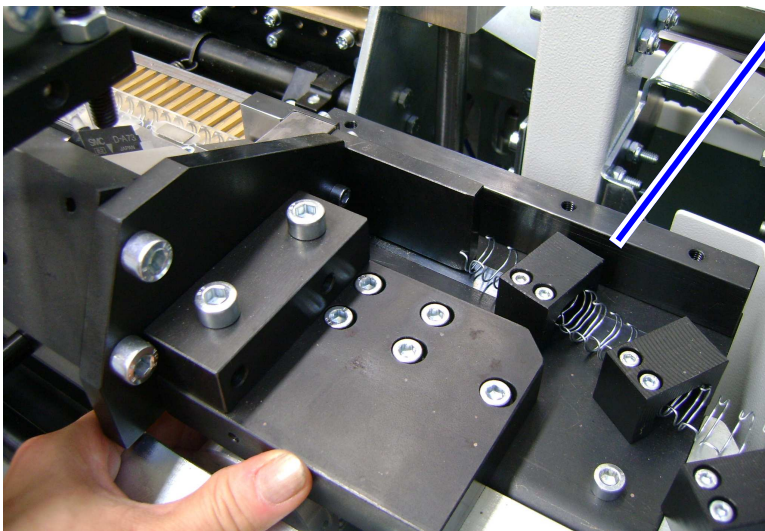
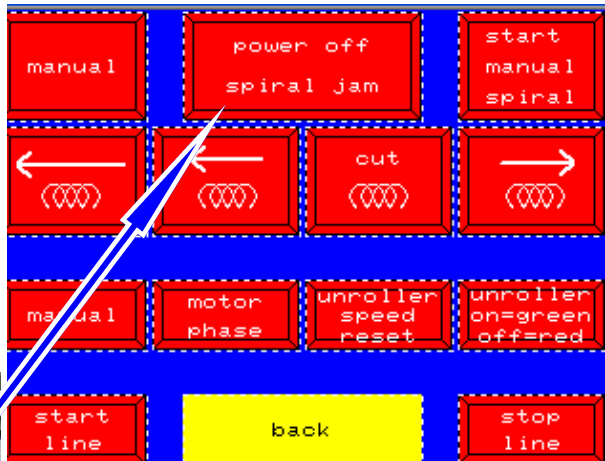
When you change the wire's spool or in the case of wire-blockage, you have to press the button "MANUAL" from the "spiral insertion box" to insert manually the wire

spiral insertion

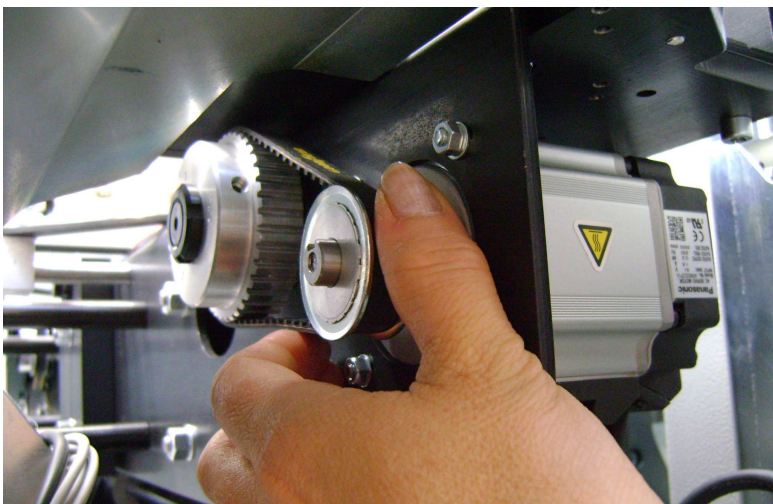


WIRE-O BLOCKAGE

In this case the first thing to do is press the button "power off spiral jam" and then eliminate the wire



Only if the wire-o doesn't come out and only after have pressed the button "power off spiral jam", you can route the jams and the belt and eliminate the wire

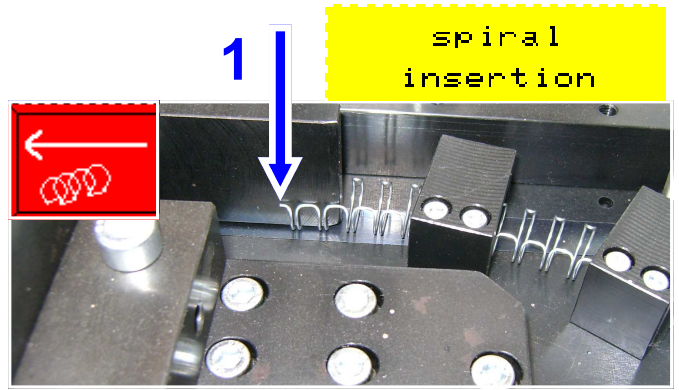


When the conduit is free-clear, before to insert the wire-o in manual mode, press the button "motor phase" and the jams will re-positioning to lead the inserting of the wire correctly

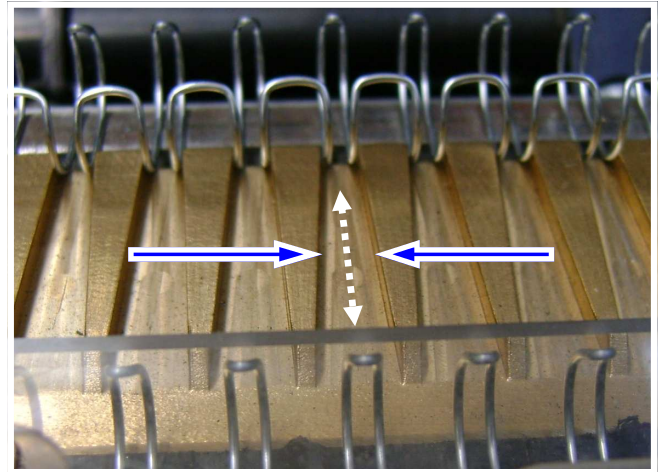
**INSERTION OF THE WIRE-O**

Lead the wire into the conduit since it stop (1)

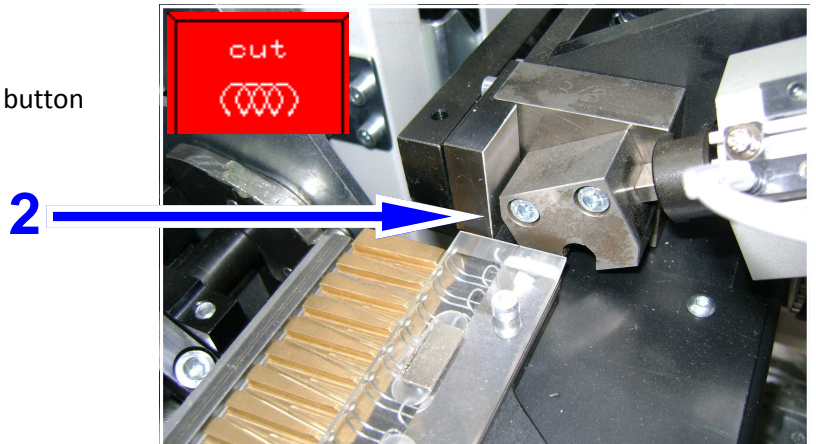
Press the button with the long arrow and the wire will be led into the binding unit.



Verify that the wire is exactly centered in the brass's canal  
If it is moved, you can use the other little arrows to positioning exactly the wire

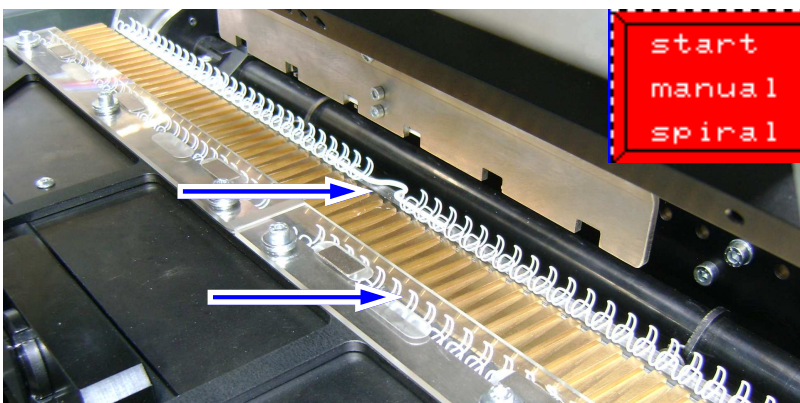


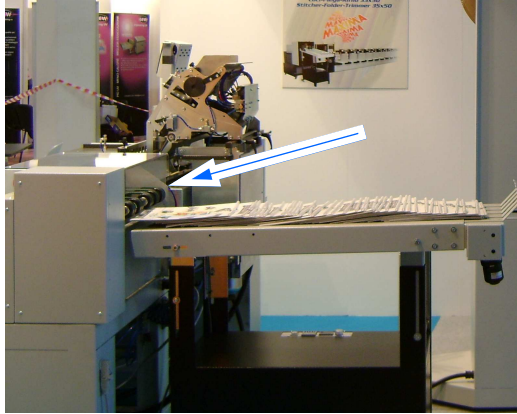
When the wire stop itself you can press the button "cut" (2),



**"start manual spiral".**

Lastly, pressing this button, the machine will positioning one complete piece of wire with or without hanger, ready to be led near the material.

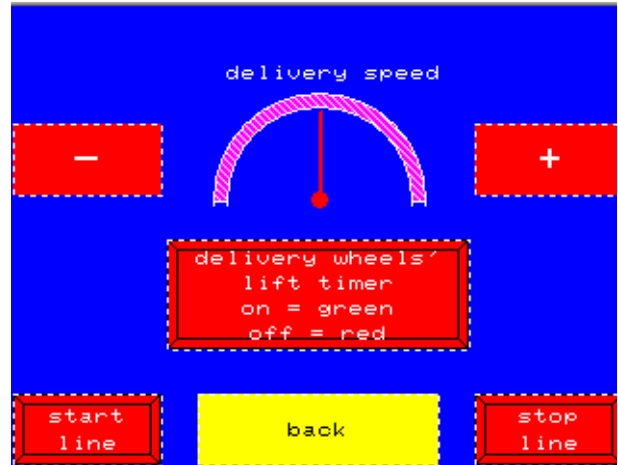




**“delivery speed adjustment”**

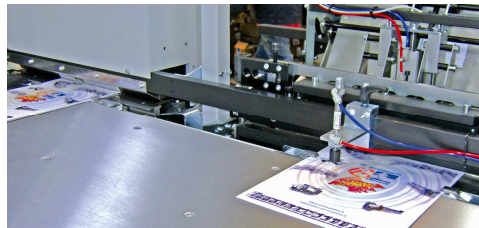
Adjust speed belts at the end of the machine

**delivery speed adjustment**

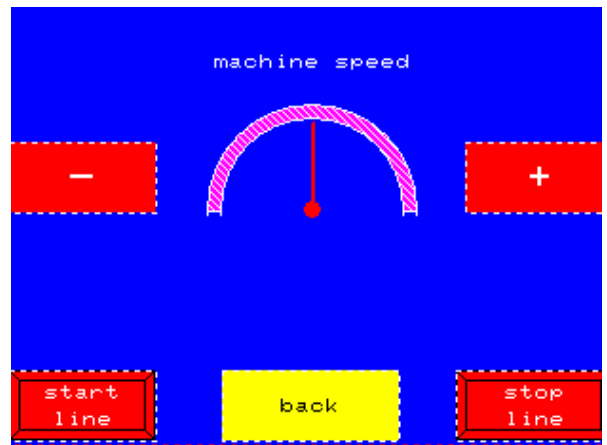


**“speed machine”**

Adjust speed clamps  
 Speed depend on the manuality (manual ability)of the operator  
 The machine can reach a maximum of 1800 c/h



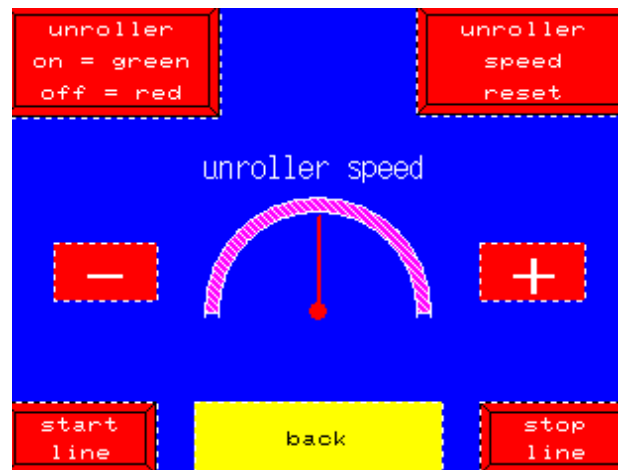
**machine speed**



**“unroller”**

Activate or deactivate the unroller

**spiral unroller**



**“unroller speed reset”**.

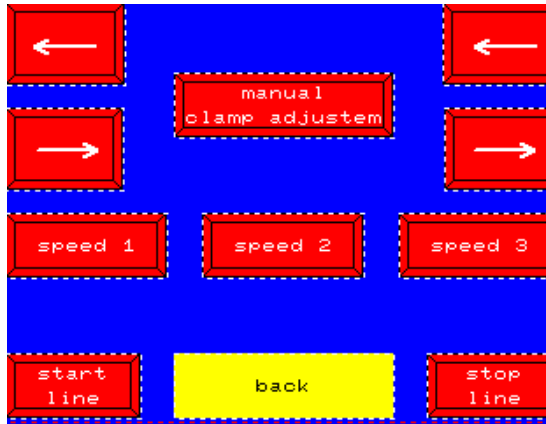
Every time that you change the wire or the spoon,pressing this button the rotation speed will decrease

**LEFT CLAMP**  
AVANTI  
INDIETRO

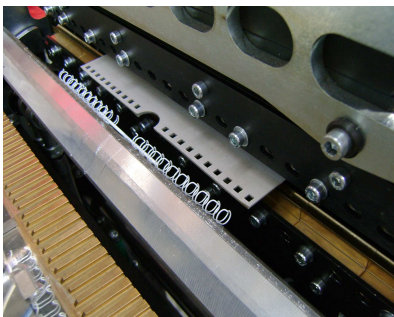
**RIGHT CLAMP**  
AVANTI  
INDIETRO

manual  
clamp  
adjustment

Pressing the button  
“manual clamp adju-  
stment” you could move  
in manual mode the  
clamps independently.

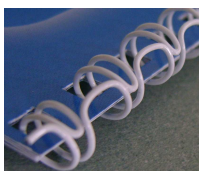
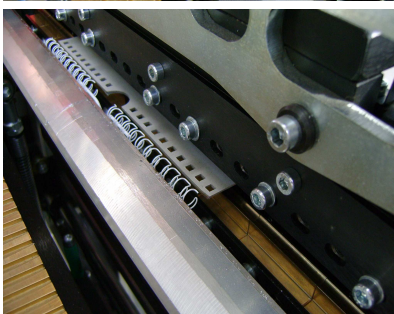
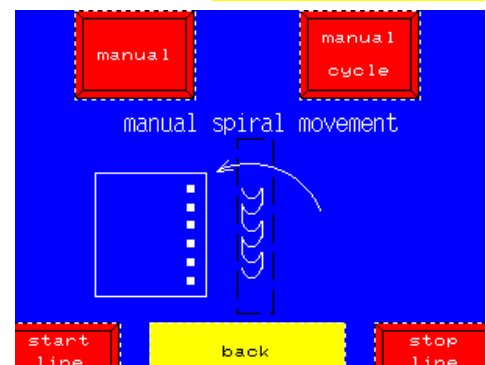


Different speed serve to move  
clamps more or less rapidly  
If you have minimum change in  
format you can use “speed 1”  
while if the change vary a lot  
you can use since to “speed 3”



If this option is activated, permit  
to the operator to insert slowly  
the wire-o into the material  
You can also use it to check if  
there's some problems with the  
wire  
(no centered perforation-no per-  
fect closure wire-folded mate-  
rial...)

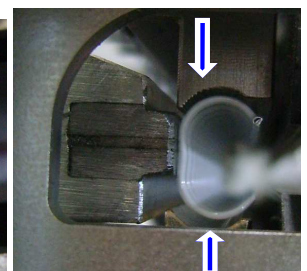
manual spiral  
movement



Open wire

Closed wire

Correct wire



With the WM machine you can do:

**Punching**

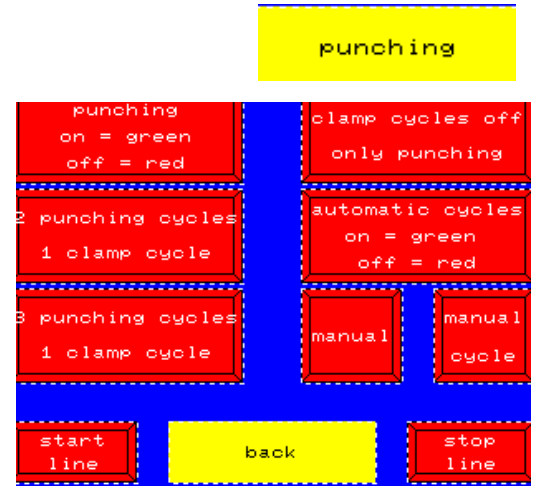
**Punching and inserting the wire-o**

**Punching and wire-o binding with or without hanger**

### **PUNCHING**



Activate punching and then press **“clamp cycles off only punching”**.



### **PUNCHING AND BINDING**

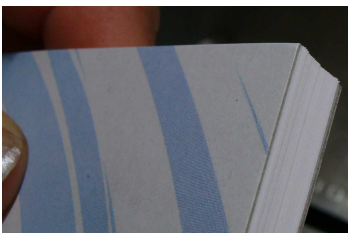


Inserting the numbers of wire-o rings and activating the punching program, the material is packaged in a single cycle

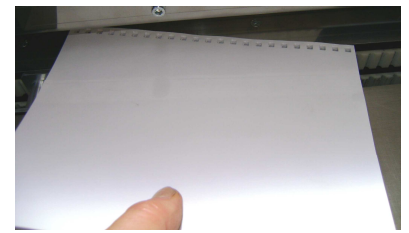
### **PUNCHING AND BINDING WITH HANGER**



Activating punching and binding with hanger, the material is packaged in a single cycle.



When the material exceed over 4mm you have to punch it in 2 or 3 passages. You have to put under the previous punched material, the rest of the material that need to be punched

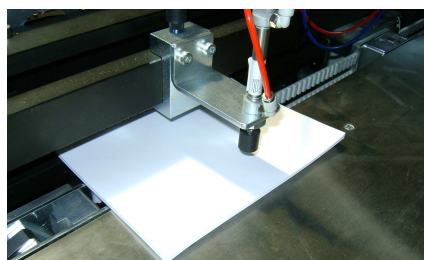


### **“2 punching cycles 1clamp cycle”**

The machine make 2punching cycles,during the second cycle the material is taken by the clamps and binding with or without hanger

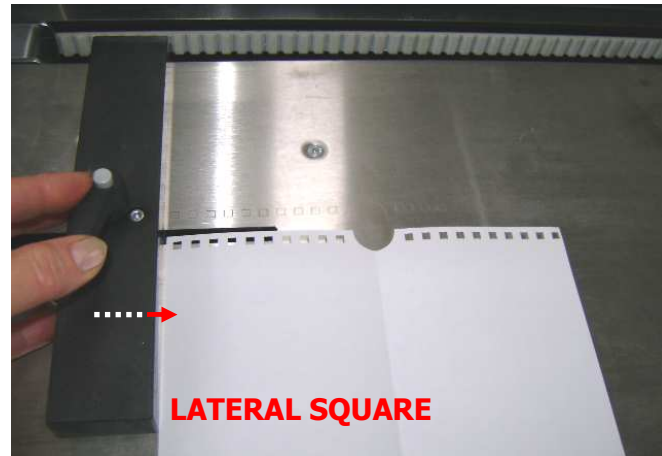
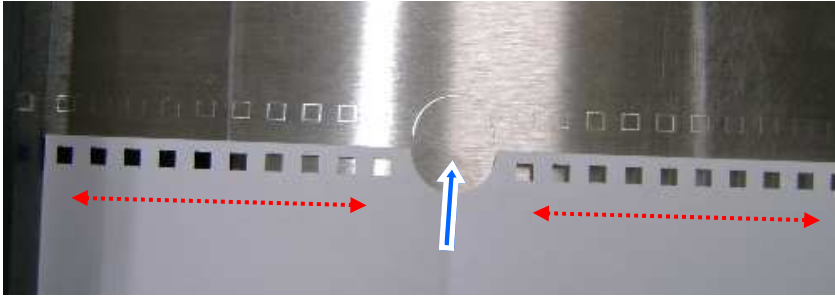
### **“3 punching cycles 1clamp cycle”**

The machine make 3punching cycles,during the third cycle the material is taken by the clamps and binding with or without hanger

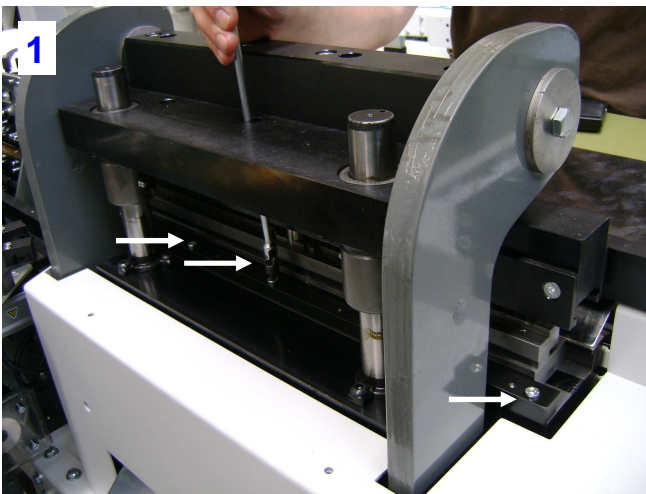
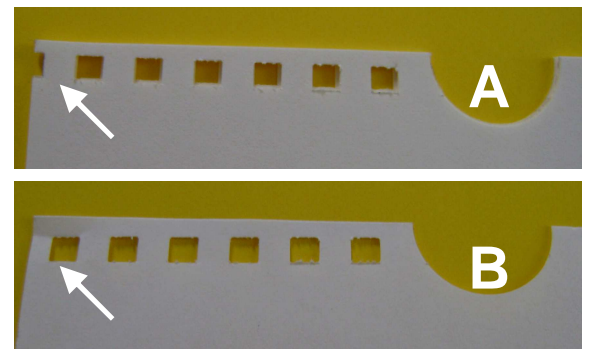


The cilinder that press paper must be positioned at the centre of the material

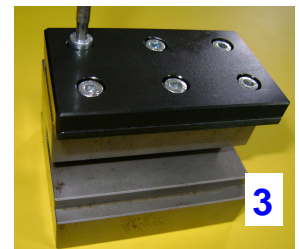
## PUNCHING AND BINDING WITH CENTERED HANGER



WM's flat, replicate faithfully the same holes that you can see on the perforator.  
 To obtain the binding with centered hanger you have to start from the "nail", in this way you can see perfectly with how many rings can you work on the left and right side  
 When you have centered the material you have to regulate the lateral square  
 In the "A" example below, punching go outside the material;  
 But in the case that the material need a determinate space near the border it is possible to eliminate the punch in this way:

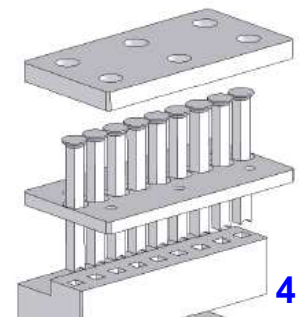


**1** Loosen screw that compose and make the perforator combined-united.  
 Only in this way you can take off the stamps from the punch

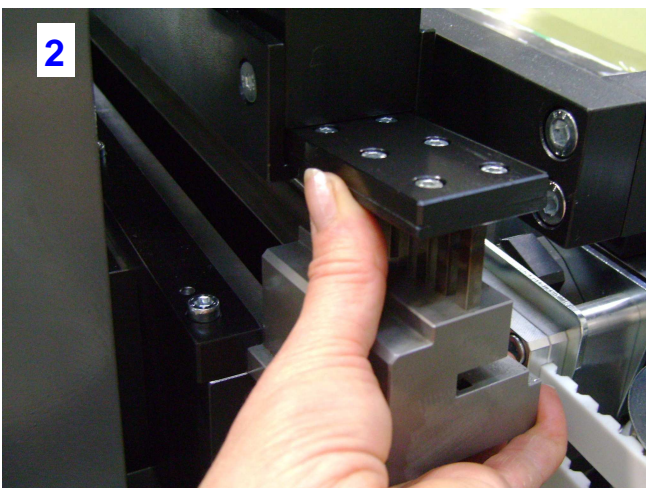
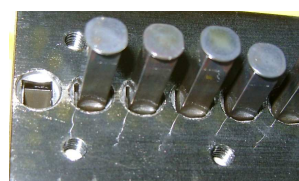


**2** take off the stamps from the punch

**3** unscrew the upper part of the cover

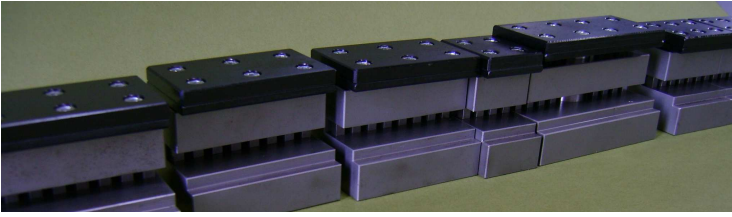


**4** take off the stamp that you don't need and close the upper part, reinsert the matrix into the perforator and close all screws.  
 The result is shown as in the photo example B

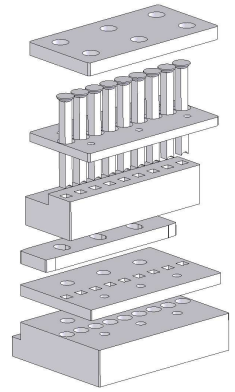


When the perforator is ready to work, through the touch screen you can pass to the next phase: "PROGRAM WORK" and at the end "MANUALLY CLAMPS MOVEMENT"

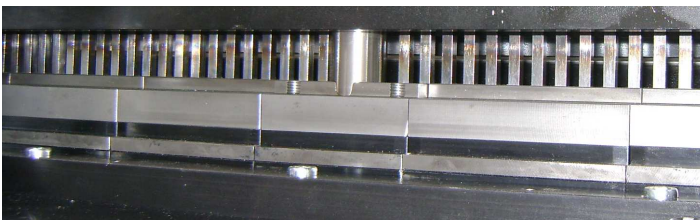
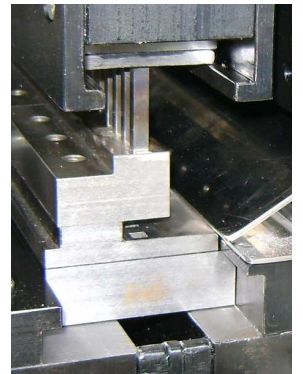
## PERFORATOR - MATRIX AND STAMPS



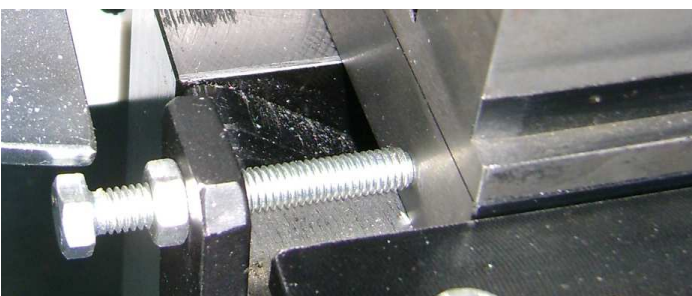
Matrix and stamps are fitted and are available in these combinations:  
Stamps with 8 or 9 holes  
"Central nail" with two holes in each side



The change of the matrix and stamps in the perforator is very simple; you have to loose external screws from the perforator to be able to insert or eliminate it. When you want to insert it you have to lead them into the slides's guides



When you have insert all the matrix, verify that are lined up one against the other, without spaces between them.

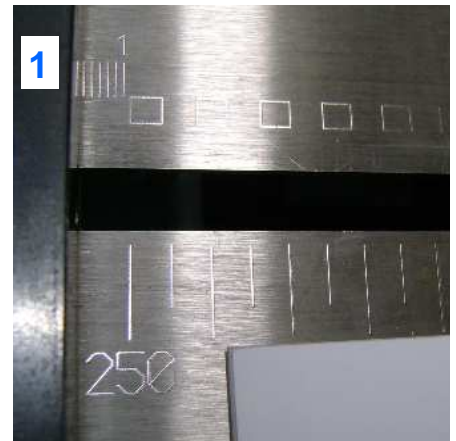
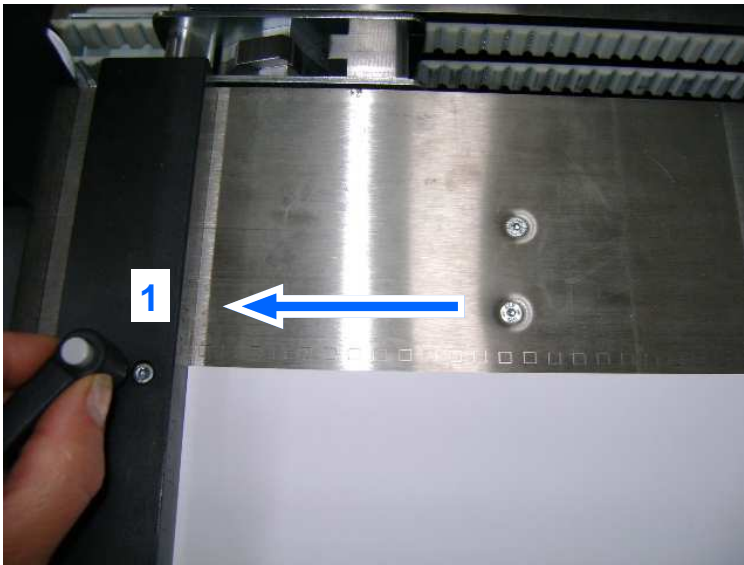


At the end of the perforator there is one screw that block matrix in the exactly point of wire's alignment

## PUNCHING AND BINDING WITHOUT HANGER

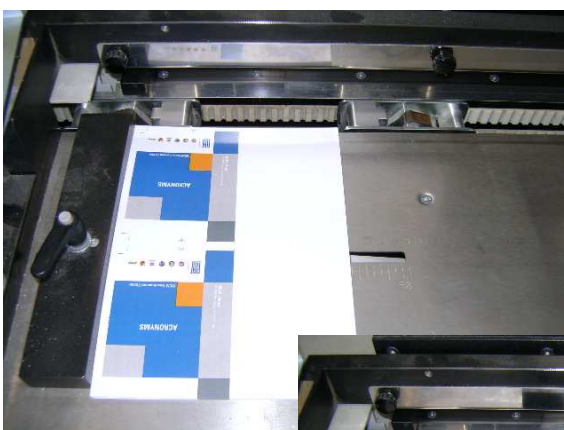
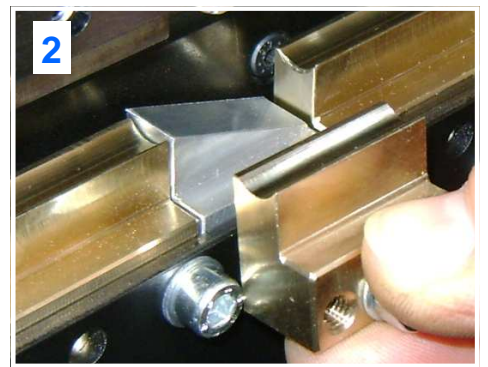


You have to position the square on the left side (1), where you can see the scale that start from 1 and goes on since to 10, it is useful to center the material into the wire-o

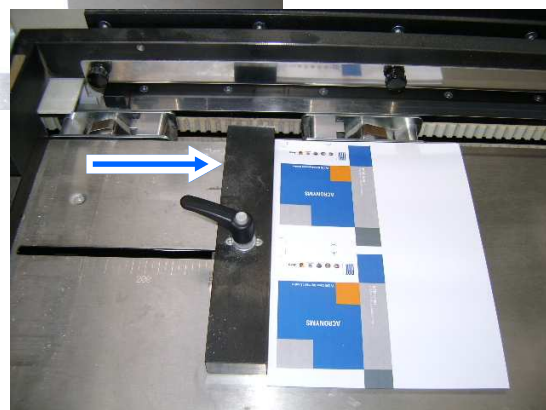
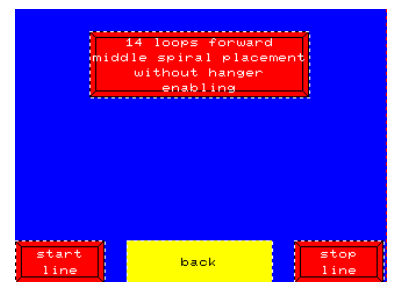


Center the material into the wire, up to 23.8cm it's not necessary to modify the conduits,

If the binding is bigger than that measure, you have to put another conduit in the centre but when you work with hangers you have to eliminate it and reintegrate the block (FIG.2)

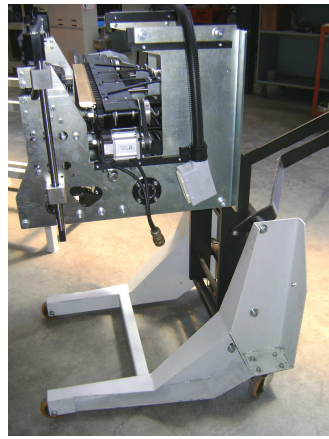


Activating this option, when you work with small format size, you can move the material 14 rings further on, it facilitate the operator that can work in the central part

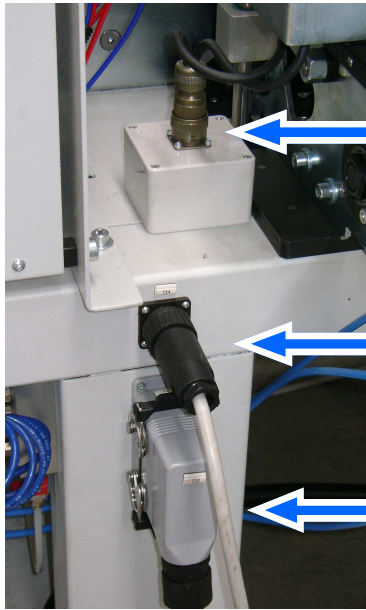


## BINDING

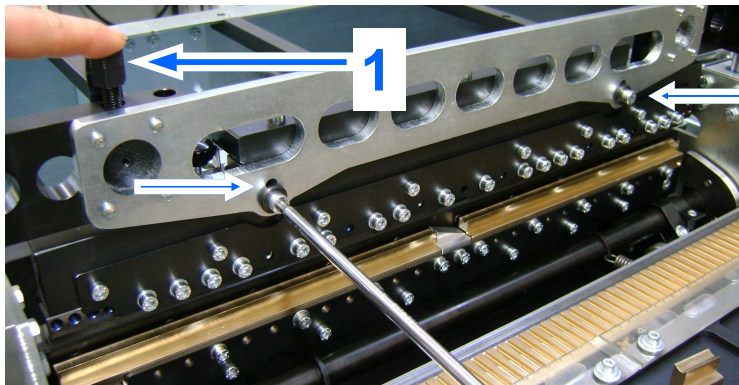
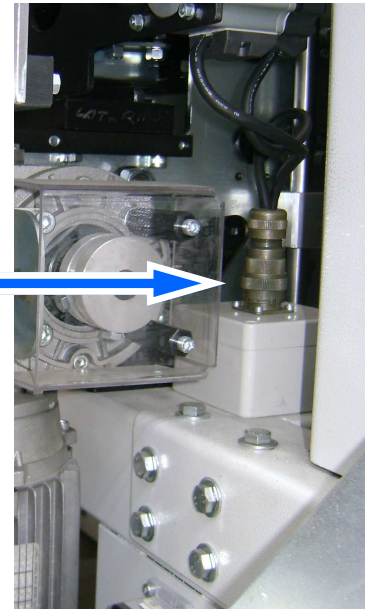
The binding station is detachable  
When you have to change the wire-o format, you have to unlock-release it and put it in the provided carriage



BINDING'S CARRIAGE AND ATTACHMENT



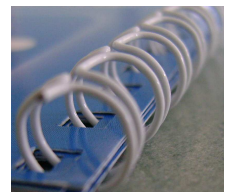
BINDING SYSTEM MUST BE CONNECT OR DISCONNECT THROUGH BY THE 4CONNECTOR SIGNALLED



## REGULATION WIRE-O CLOSURE

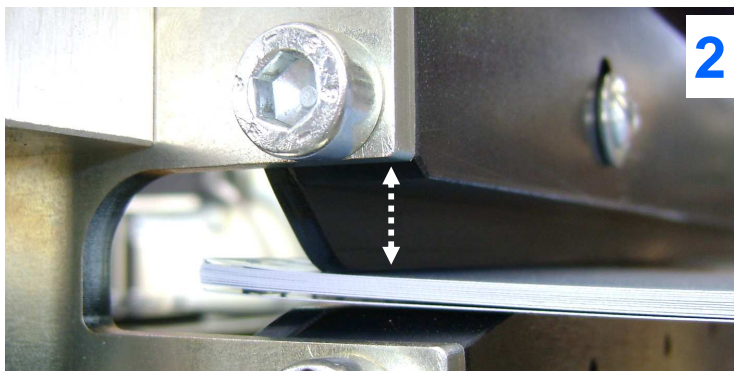
**1** This operation permit to regulate roundness and closure of the wire.

You have to loosen the screws that are on the both sides, and with the regulation knob, you can move it in counterclockwise or anticlockwise sense that



permit to regulate closure and open of the wire into the conduits

When you have made your regulation you have to close screws on both sides



**2** Fig.2 shows the space that have to be regulate in order to the material's thickness require

## ALARMS PAGES

Usually alarms pages appears automatically and visualize the exact point in which the machine is stopped

Pages are more than one and in each one you can see exactly the reason of the stop of the machine, visualized by a red flash

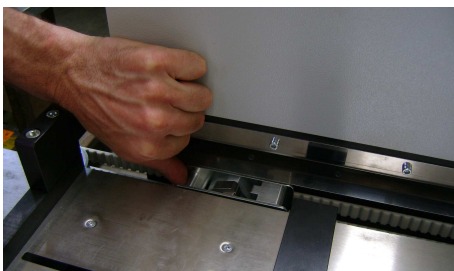
If rests an open gate you have to close it

In case of material's blockage, verify and clear it

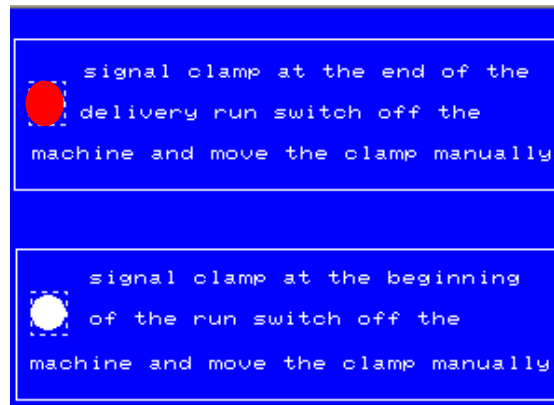
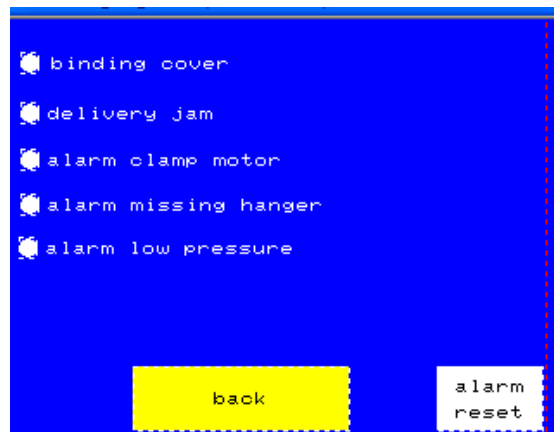
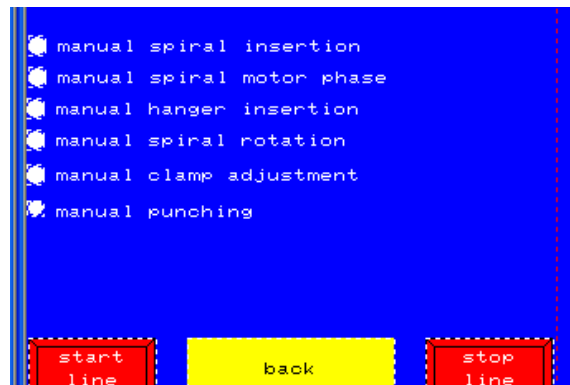


Verify that the air tap is open and the compressed air connected

“Alarm clamps”: put it off the WM machine through the main switch and move manually the clamps



view  
error



# DELIVERY BELT



**Sets counter.**

A Preselector permit to plan a certain amount of booklet,pressing the blue buttons.



According to the required amount, the conveyor leave automatically a detachment to make easier the taking of the counted booklet.



**Sets counter.**

This device serve to count how many finished copies have you got