

**OEM**

*USER MANUAL*

# VKP80II-EE

*Commands manual*

**7720000001600**



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**THE IMAGES USED IN THIS MANUAL ARE USED AS AN ILLUSTRATIVE EXAMPLES. THEY COULDN'T REPRODUCE THE DESCRIBED MODEL FAITHFULLY.**

**UNLESS OTHERWISE SPECIFIED,  
THE INFORMATION GIVEN IN THIS  
MANUAL  
ARE REFERRED TO ALL MODELS  
IN PRODUCTION AT THE ISSUE  
DATE OF THIS DOCUMENT.**

**GENERAL SAFETY INFORMATION**  
Your attention is drawn to the following actions that could compromise the characteristics of the product:

- Read and retain the instructions which follow.
- Follow all indications and instructions given on the device.
- Make sure that the surface on which the device rests is stable. If it is not, the device could fall, seriously damaging it.
- Make sure that the device rests on a hard (non-padded) surface and that there is sufficient ventilation.
- When positioning the device, make sure cables do not get damaged.
- Use the type of electrical power supply indicated on the device label. If uncertain, contact your dealer.
- Make sure the electrical system that supplies power to the device is equipped with a ground wire and is protected by a differential switch.
- Do not block the ventilation openings.
- Do not insert objects inside the device as this could cause short-circuiting or damage components that could jeopardize printer functioning.
- Do not carry out repairs on the device yourself, except for the normal maintenance operations given in the user manual.
- Make sure that there is an easily-accessible outlet with a capacity of no less than 10A closely to where the device is to be installed.
- Periodically perform scheduled maintenance on the device to avoid dirt build-up that could compromise the correct, safe operation of the unit.
- Before any type of work is done on the machine, disconnect the power supply.
- Do not touch the head heating line with bare hands or metal objects. Do not perform any operation inside the printer immediately after printing because the head and motor tend to become very hot.



THE CE MARK AFFIXED TO  
THE PRODUCT CERTIFY  
THAT THE PRODUCT SAT-  
ISFIES THE BASIC SAFETY  
REQUIREMENTS.

The device is in conformity with the essential Electromagnetic Compatibility and Electric Safety requirements laid down in Directives 2006/95/CE and 2004/108/CE inasmuch as it was designed in conformity with the provisions laid down in the following Standards:

- EN 55022 Class B (*Limits and methods of measurements of radio disturbance characteristics of Information Technology Equipment*)
- EN 55024 (*Information Technology Equipment – Immunity characteristics – Limits and methods of measurement*)
- EN 60950-1 (*Safety of information equipment including electrical business equipment*)



**GUIDELINES FOR  
THE DISPOSAL OF  
THE PRODUCT**

The crossed-out rubbish bin logo means that used electrical and electronic products shall NOT be mixed with unsorted municipal waste. For more detailed information about recycling of this product, refer to the instructions of your country for the disposal of these products.

- Do not dispose of this equipment as miscellaneous solid municipal waste, but arrange to have it collected separately.
- The re-use or correct recycling of the electronic and electrical equipment (EEE) is important in order to protect the environment and the wellbeing of humans.
- In accordance with European Directive WEEE 2002/96/EC, special collection points are available to which to deliver waste electrical and electronic equipment and the equipment can also be handed over to a distributor at the moment of purchasing a new equivalent type.
- The public administration and producers of electrical and electronic equipment are involved in facilitating the processes of the re-use and recovery of waste electrical and electronic equipment through the organisation of collection activities and the use of appropriate planning arrangements.
- Unauthorised disposal of waste electrical and electronic equipment is punishable by law with the appropriate penalties.

#### **GENERAL INSTRUCTIONS**

CUSTOM ENGINEERING S.p.A. declines all responsibility for accidents or damage to persons or property occurring as a result of tampering, structural or functional modifications, unsuitable or incorrect installations, environments not in keeping with the equipment's protection degree or with the required temperature and humidity conditions, failure to carry out maintenance and periodical inspections and poor repair work.



The format used for this manual improves use of natural resources reducing the quantity of necessary paper to print this copy.



# INDEX

<b>1 INTRODUCTION .....</b>	<b>7</b>
1.1 Document structure .....	7
1.2 Explanatory notes used in this manual .....	7
<b>2 DESCRIPTION .....</b>	<b>9</b>
2.1 Unpacking the printer .....	9
2.2 Printer component .....	10
2.3 Key functions .....	13
2.4 Status led flashes .....	15
<b>3 INSTALLATION .....</b>	<b>17</b>
3.1 Fastening .....	17
3.2 Installation and use with “retracting” mode .....	19
3.3 Connections .....	20
3.4 Pinout .....	21
3.5 Driver .....	24
<b>4 OPERATION .....</b>	<b>25</b>
4.1 Adjusting paper width .....	25
4.2 Paper roll insertion .....	26
<b>5 CONFIGURATION .....</b>	<b>29</b>
5.1 Configuration mode .....	29
5.2 Setup report .....	31
5.3 Printer status .....	32
5.4 Printer parameters .....	33
5.5 Hexadecimal dump .....	36
<b>6 MAINTENANCE .....</b>	<b>37</b>
6.1 Planning of cleaning operations .....	37
6.2 Cleaning .....	38
6.3 Upgrade firmware .....	44
<b>7 SPECIFICATIONS .....</b>	<b>47</b>
7.1 Hardware specifications .....	47
7.2 Character specifications .....	49
7.3 Ejector specifications .....	49
7.4 Printer dimensions .....	50
7.5 Power supply dimensions cod.963GE020000003 (optional) .....	51
7.6 Paper specifications .....	52
7.7 Western character .....	54
<b>8 CONSUMABLES .....</b>	<b>61</b>
<b>9 ACCESSORIES .....</b>	<b>63</b>
9.1 Adapter cable for power supply .....	64
9.2 Paper roll holder .....	65
9.3 “Shutter” device .....	67

## **INDEX**

---

<b>10 ALIGNMENT .....</b>	<b>69</b>
10.1 Enable alignment .....	69
10.2 Calibration .....	69
10.3 Alignment parameters .....	71
10.4 Printing area .....	73
<b>11 TECHNICAL SERVICE .....</b>	<b>75</b>
<b>12 ADVANCED FUNCTIONS .....</b>	<b>77</b>
12.1 File sharing .....	77
12.2 Embedded Web Server .....	78
12.3 Embedded Web Server: access .....	79
12.4 Embedded Web Server: login .....	80

# 1 INTRODUCTION

## 1.1 Document structure

This document includes the following chapters:

1 INTRODUCTION	information about this document
2 DESCRIPTION	general description of device
3 INSTALLATION	information required for a correct installation of the device
4 OPERATION	information required to make the device operative
5 CONFIGURATION	description of the configuration parameters of the device
6 MAINTENANCE	information for a correct periodic maintenance
7 SPECIFICATION	technical specification for the device and its accessories
8 CONSUMABLES	description and installation of the available consumables for the device
9 ACCESSORIES	description and installation of the available accessories for the device
10 ALIGNMENT	information required for managing the paper alignment
11 TECHNICAL SERVICE	information required for contacting the technical service
12 ADVANCED FUNCTIONS	information about special functions available with the device

## 1.2 Explanatory notes used in this manual

**NOTE:** Information or suggestions relative to the use of the printer.

**ATTENTION:** Information required to guard against damaging the printer.

**DANGER:** Information required to guard against operator injury or damage.

## ***1. INTRODUCTION***

---

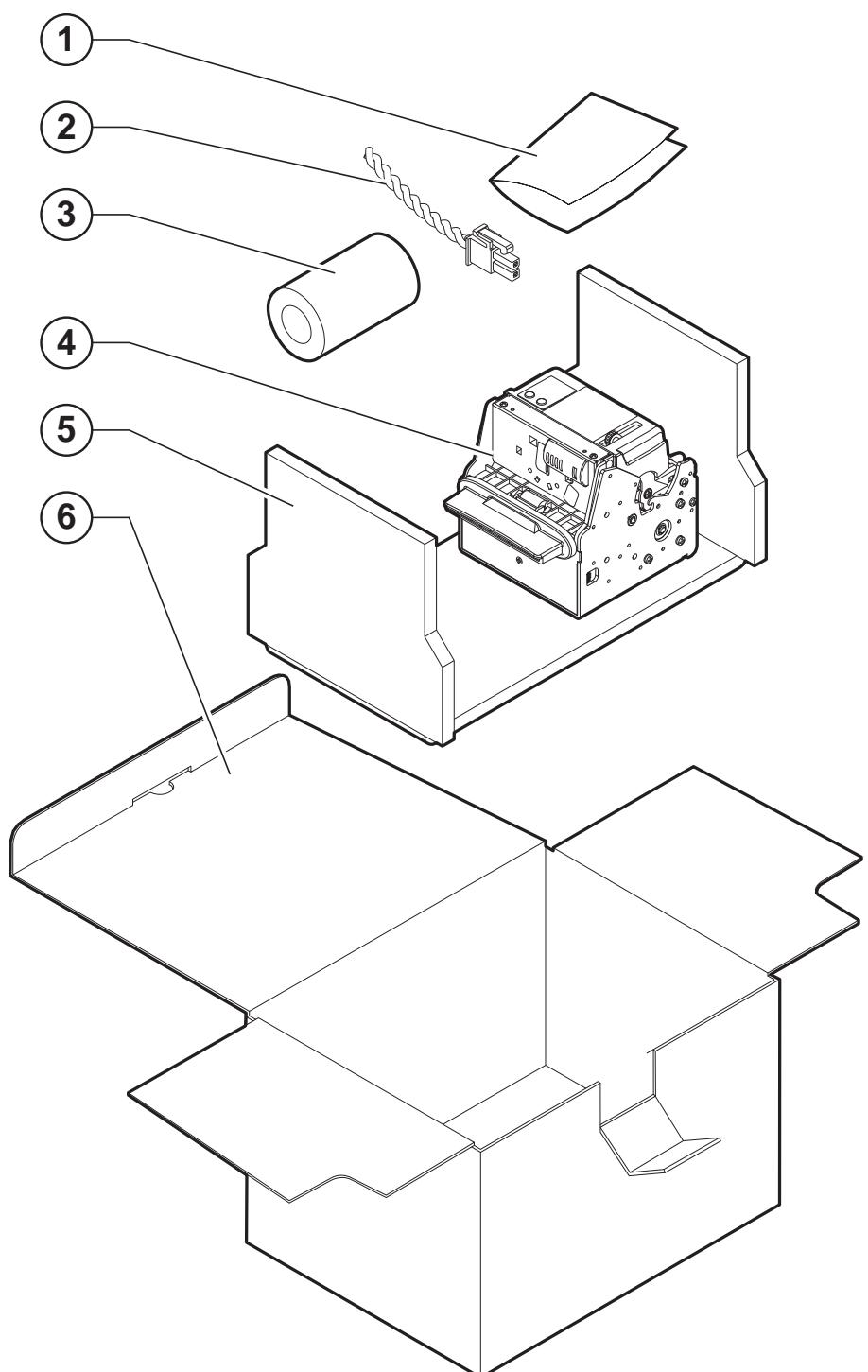
## 2 DESCRIPTION

### 2.1 Unpacking the printer

Remove the printer from its carton being careful not to damage the packing material so that it may be re-used if the printer is to be transported in the future.

Make sure that all the components illustrated below are present and that there are no signs of damage. If there are, contact Customer Service.

1. Installation instructions
2. Power supply cable
3. Paper roll
4. Printer
5. Foam packing shell
6. Box



- Open the printer packaging
- Remove the paper roll
- Remove the cable of power supply
- Take out the foam packing shell
- Take out the printer and remove it from its plastic covering.
- Keep the box, trays and packing materials in the event the printer must be transported/shipped in the future..

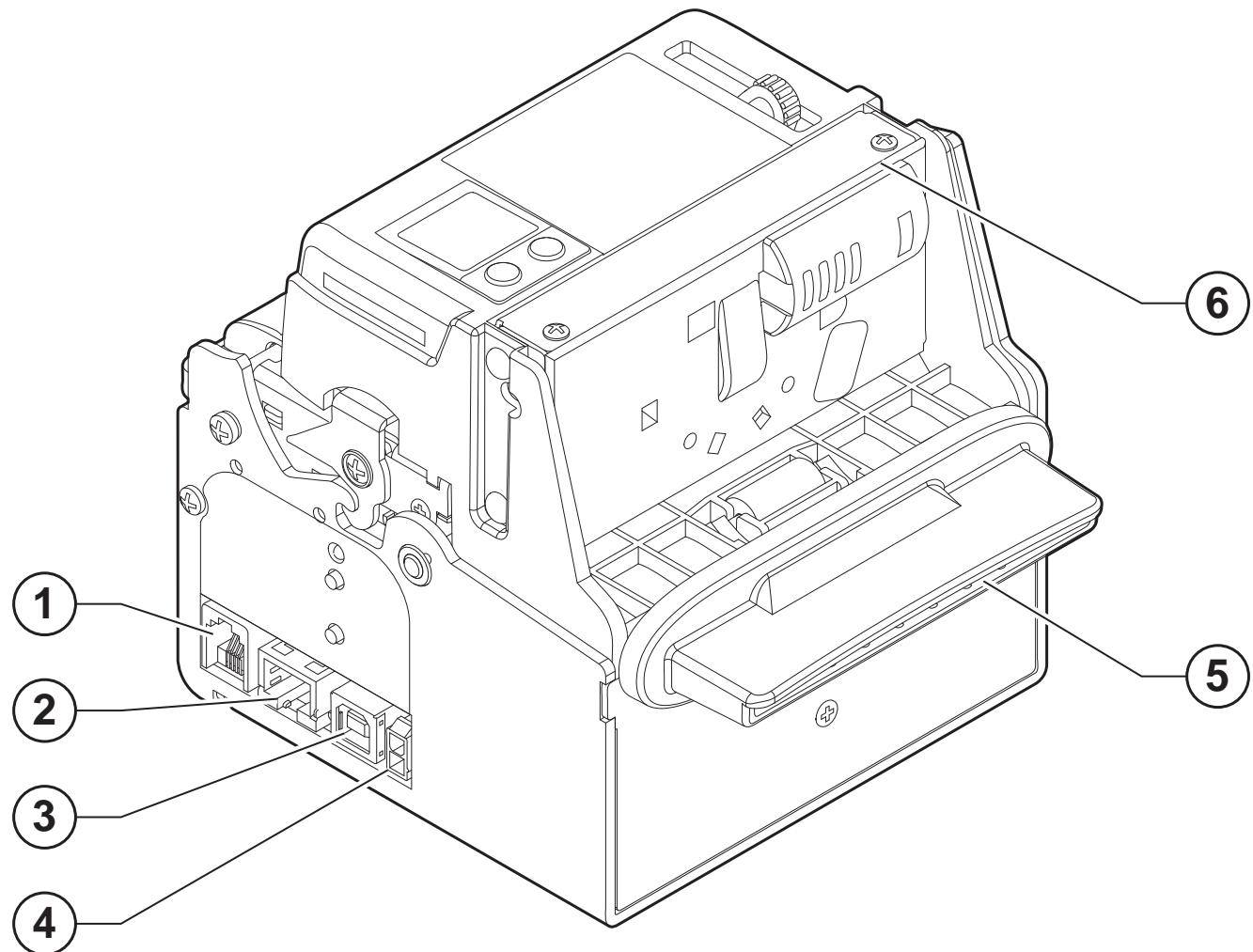
## **2. DESCRIPTION**

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### **2.2 Printer component**

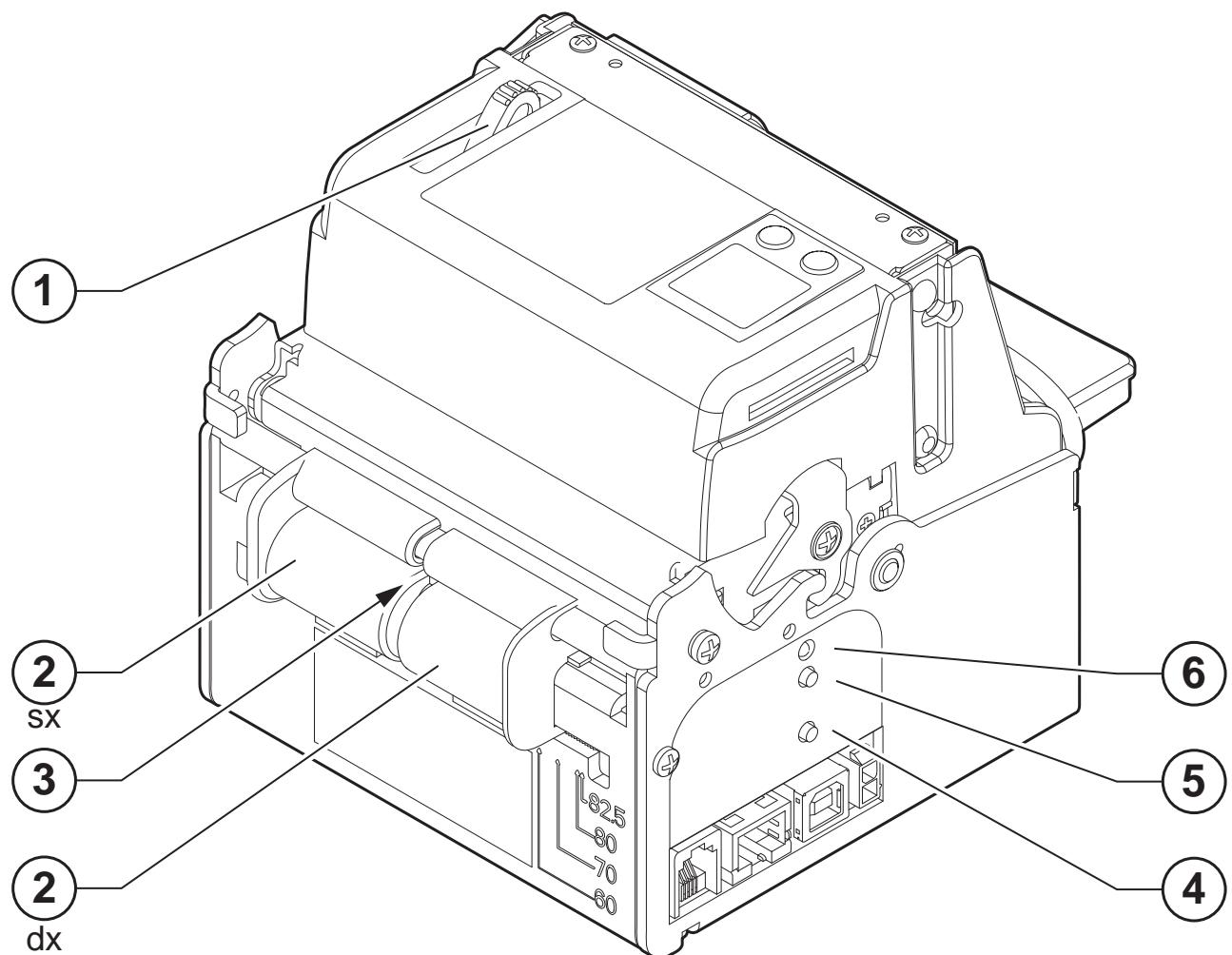
#### **EXTERNAL FRONTAL VIEW**

1. RS232 serial connector
2. ETHERNET connector
3. USB connector
4. Power supply connector
5. Paper output
6. Cutter



**EXTERNAL REAR VIEW**

1. Opening lever
2. Cursors for paper input
3. Paper input
4. FORM FEED key
5. LINE FEED key
6. Status led



## **2. DESCRIPTION**

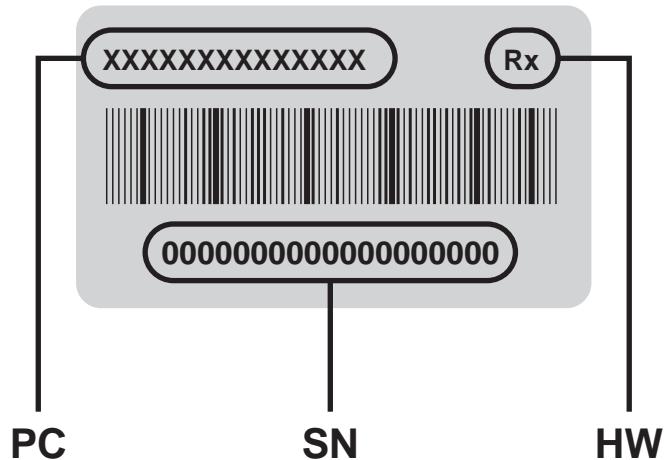
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### **PRODUCT LABEL**

PC = Product code (14 digits)

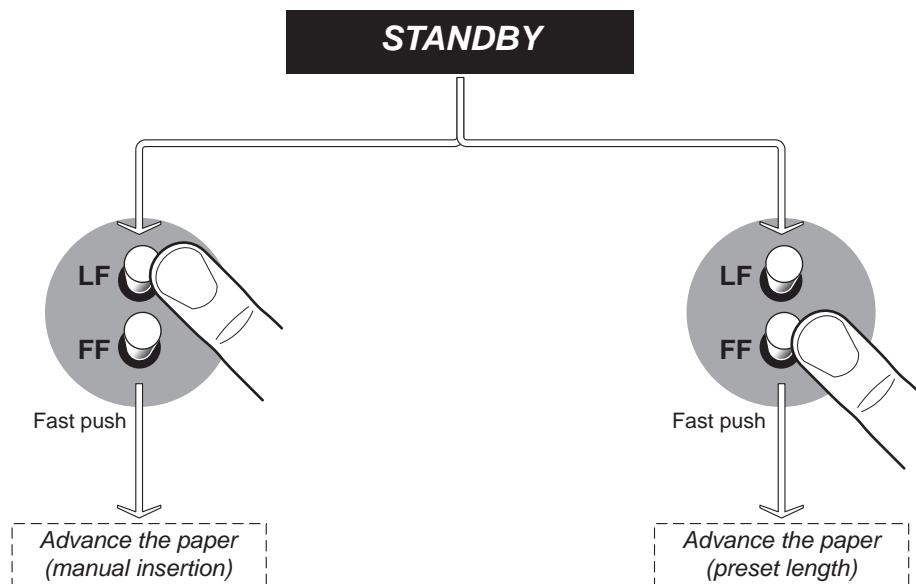
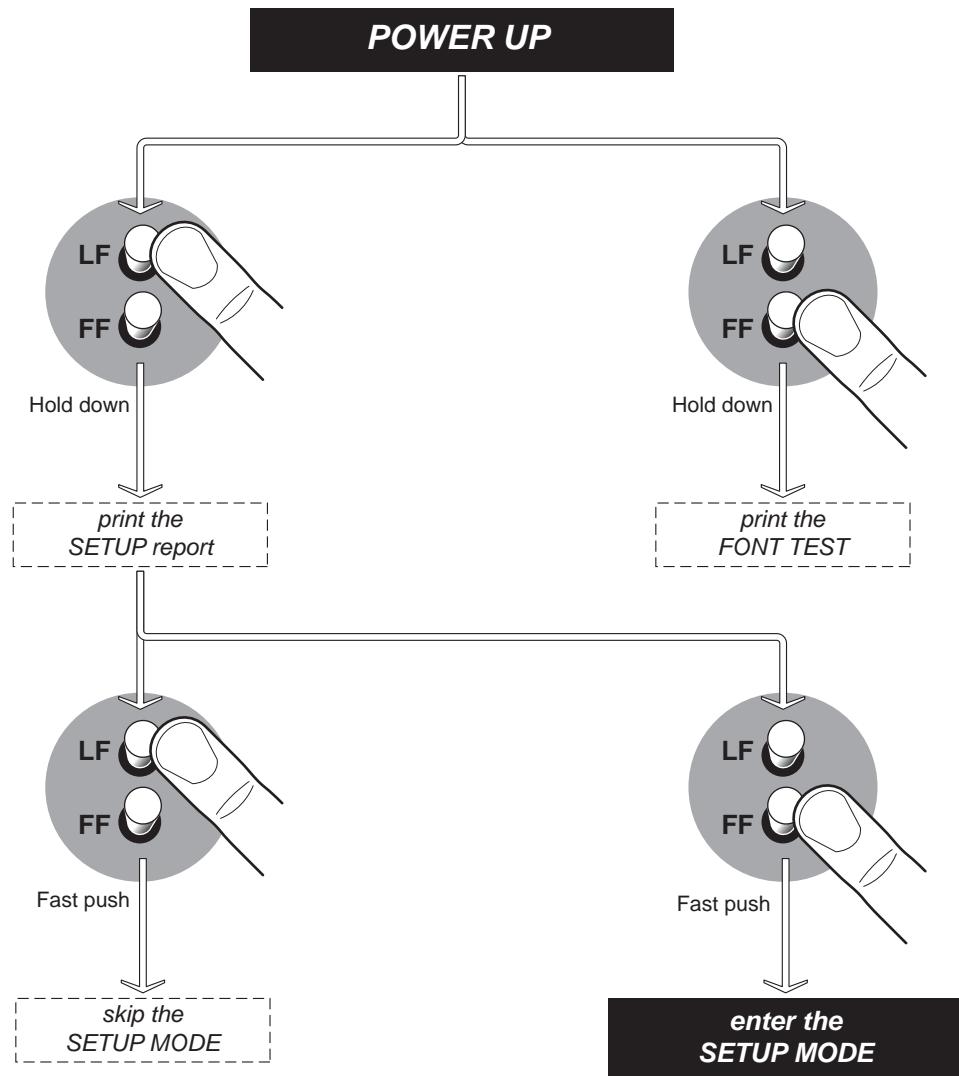
SN = Serial number

HW = Hardware release



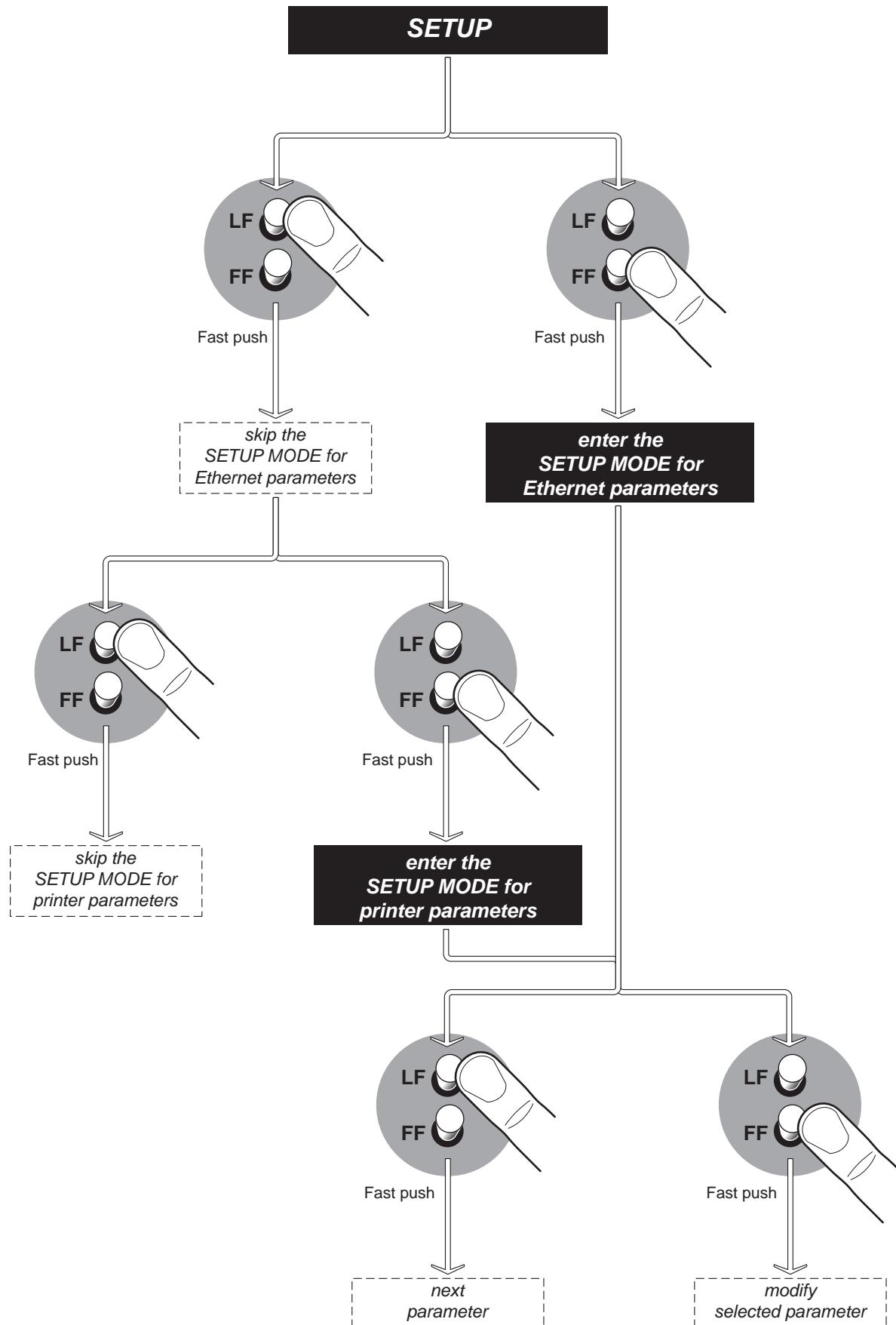
### 2.3 Key functions

The following figures show the functions of printer's keys according to the operating condition of the device.



## 2. DESCRIPTION

---



## 2.4 Status led flashes

The Status led indicates hardware status of device. Given in the table below are the various led signals and the corresponding printer status.

STATUS LED		DESCRIPTION
-		<b>OFF</b>
GREEN		PRINTER ON: NO ERROR
GREEN COMMUNICATION STATUS		RECEIVE DATA
		RECEPTION ERRORS (PARITY, FRAME ERROR, OVERRUN ERROR)
		COMMAND NOT RECOGNIZED
		COMMAND RECEPTION TIME OUT
YELLOW RECOVERABLE ERROR		HEADING OVER TEMPERATURE
		PAPER END
		PAPER JAM
		POWER SUPPLY VOLTAGE INCORRECT
		COVER OPEN
		RAM ERROR
RED UNRECOVERABLE ERROR		EEPROM ERROR
		CUTTER ERROR

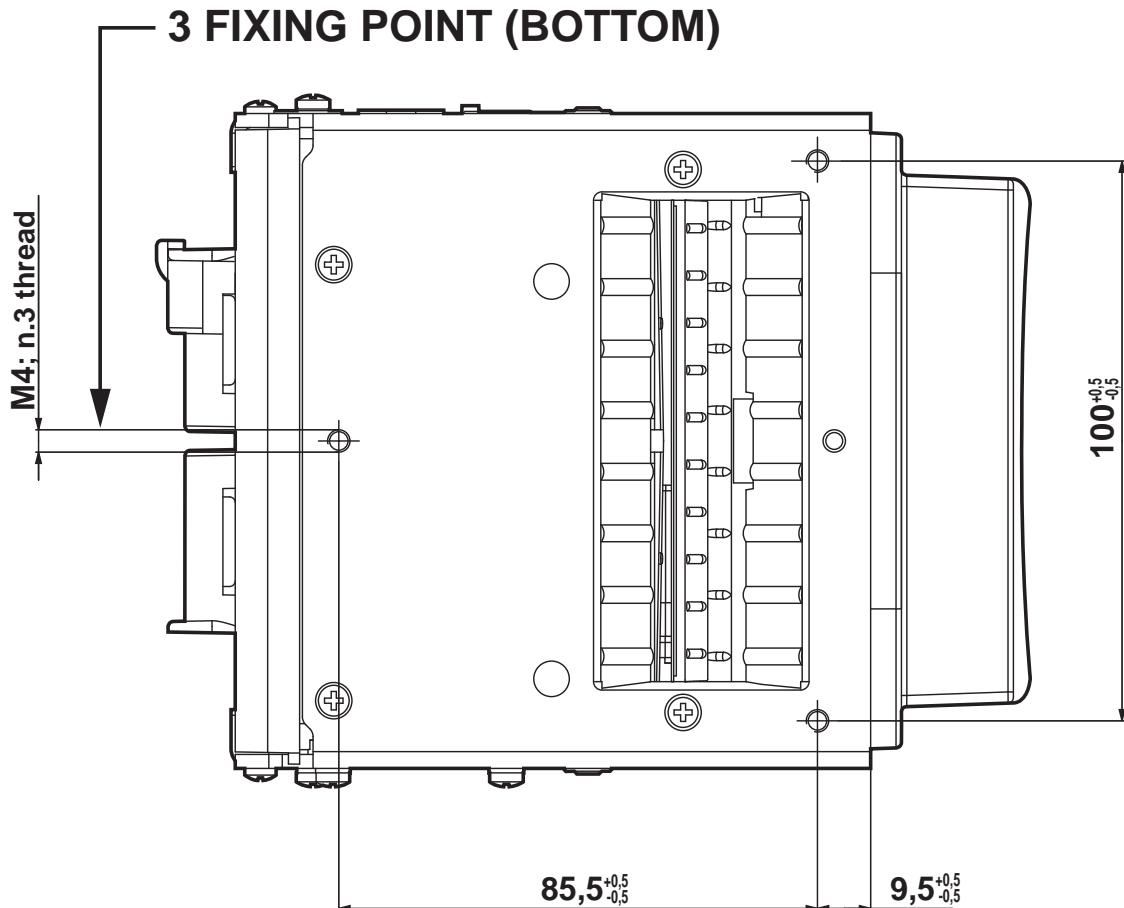
## ***2. DESCRIPTION***

---

## 3 INSTALLATION

### 3.1 Fastening

The printer is provided with three fixing holes on the bottom of device (see following figure). To fasten the printer on a panel, use three M4 screws



It's very important to consider the screws length to not damage the internal components placed near the fixing holes .

On the basis of panel thickness calculate the screws length as follows :

$$Lv \leq Pn + Sp$$

where

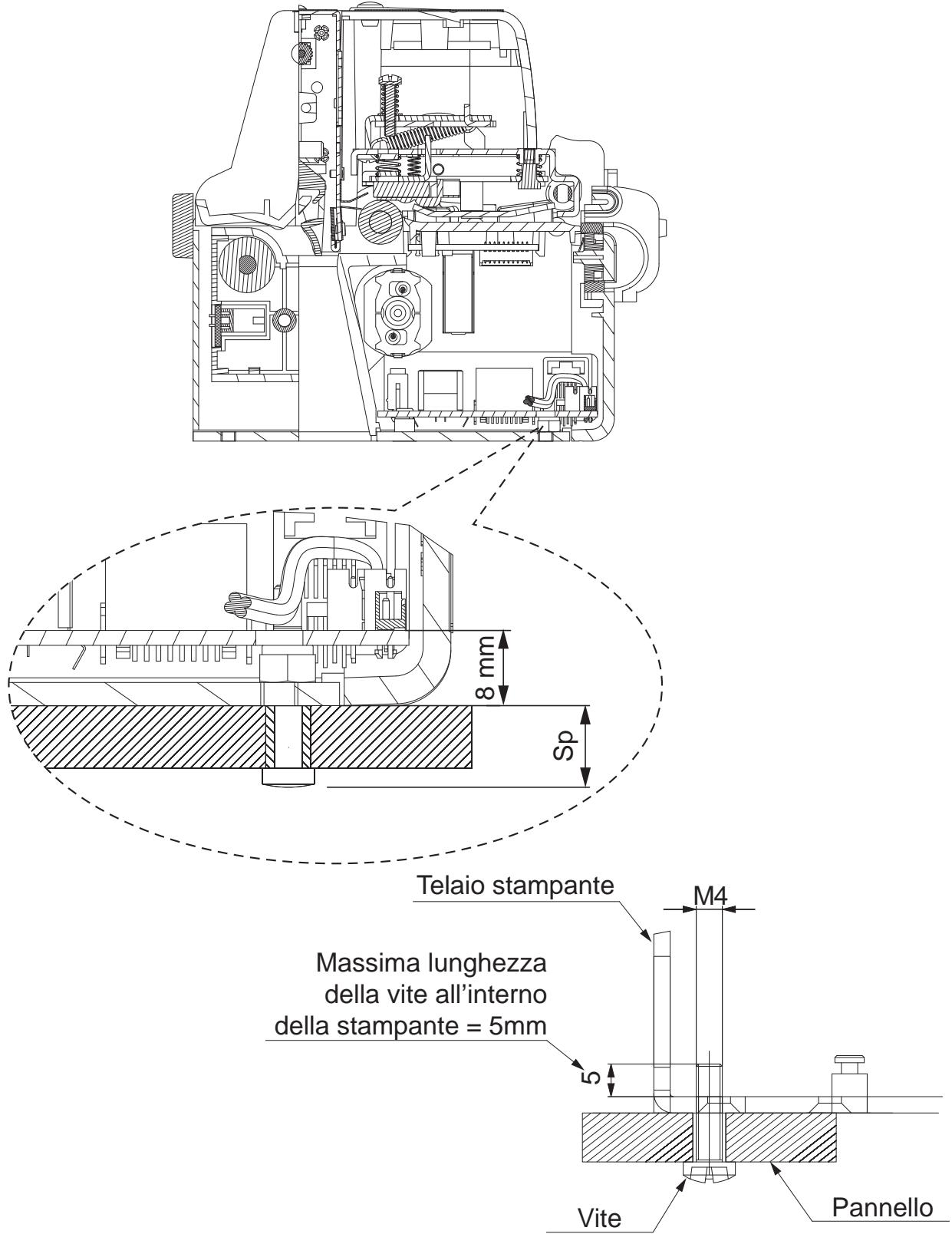
Lv : indicates screw length

Pn : 8 mm

Sp : panel thickness

For example if panel thickness is 10mm ( Sp = 10mm ) the max screw length will be 18mm.

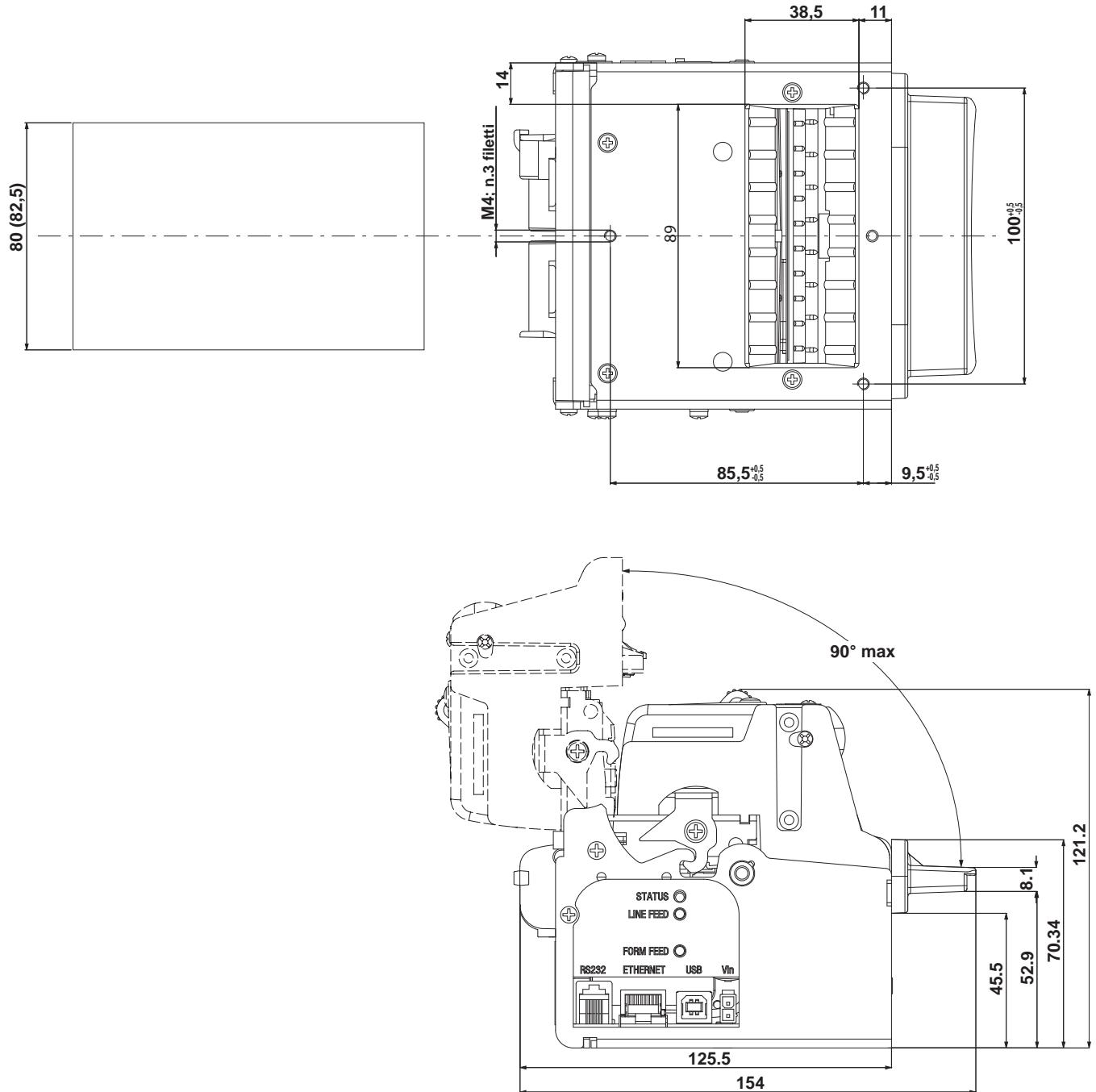
### 3. INSTALLATION



### 3.2 Installation and use with “retracting” mode

In the following table are reported the length recommended for the tickets using of the retracting mode:

TICKET LENGTH	TICKET PRESENTATION (MAX)
70 mm	10 mm
80 mm	10mm ÷ 30mm
80mm ÷ 220mm	10mm ÷ 30mm



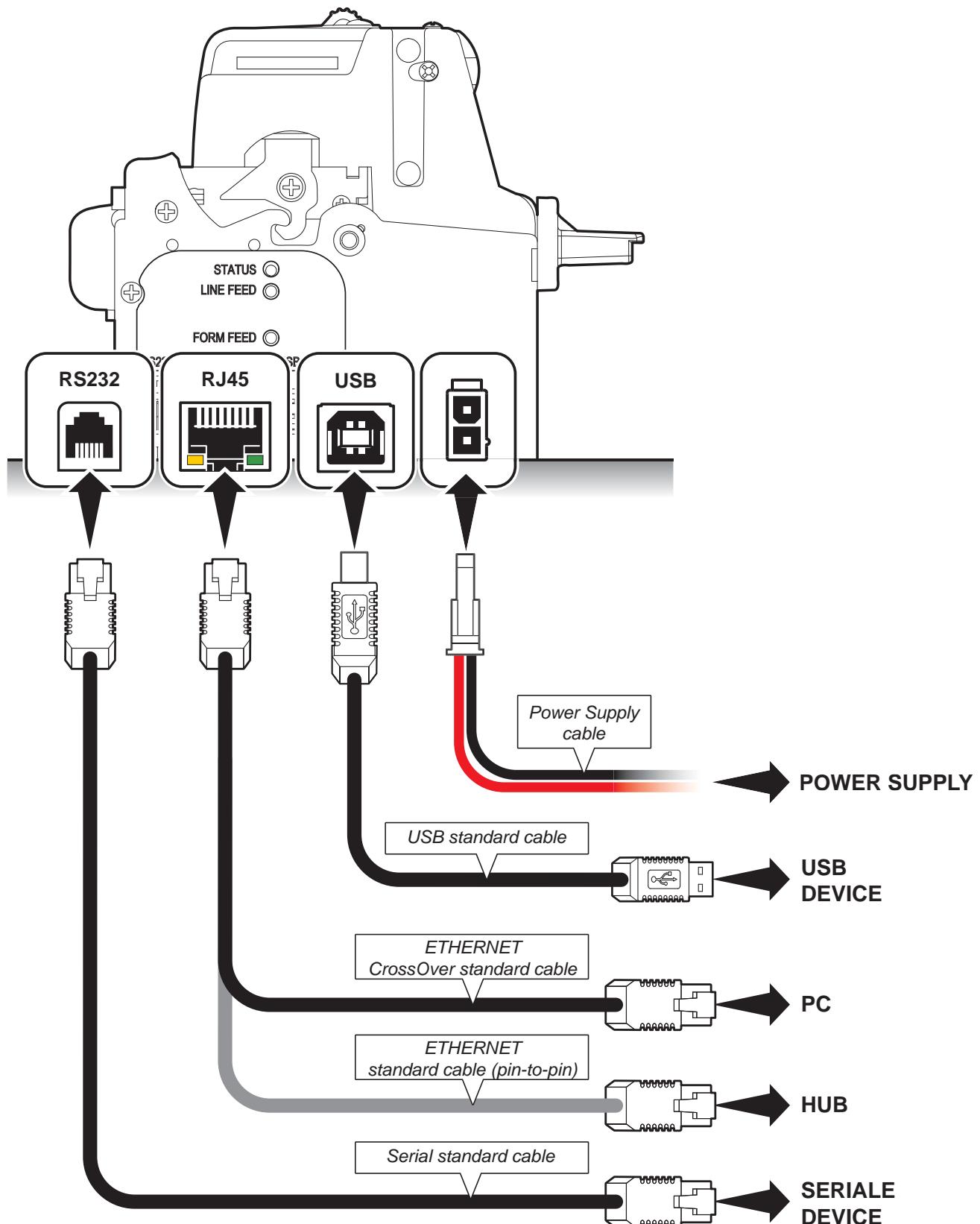
#### Note “Ejector outfeed”:

When assembling the printer on the machine, be sure to leave adequate space for the paper loop below. If this is not done, the ticket could crease at the cutting area, causing the ticket to jam in the paper outfeed opening.

### 3. INSTALLATION

#### 3.3 Connections

The following figures show the possible connections for device.



**ATTENTION:**

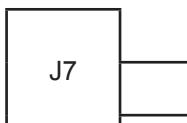
In some using conditions, we recommend the installation of a ferrite core on the power supply cable.

### 3.4 Pinout



#### POWER SUPPLY

Male Molex connector series 5569 vertical (no. 39-30-1020)



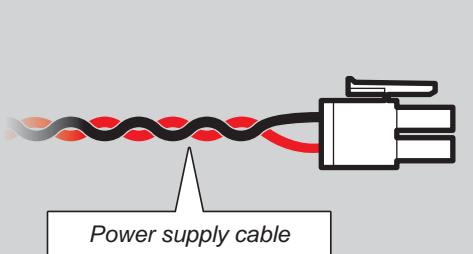
1	+24 Vdc
2	GND

#### ATTENTION:

Respect power supply polarity.

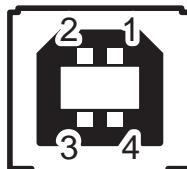
#### Note: Power supply cable

The following figure shows the connector pinout of the power supply cable for the device:



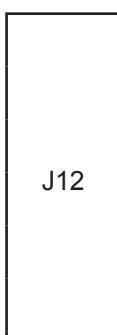
Female Molex connector  
series 5557 (n.39-01-3022)

PIN	Cable color	Signal
1	Red	+24V
2	Black	GND



#### USB INTERFACE

Female USB type B connector



1	USB-VBUS	(in)
2	D -	(in/out)
3	D +	(in/out)
4	GND	
SH1	SHIELD	
SH2	SHIELD	

### 3. INSTALLATION



#### SERIAL INTERFACE

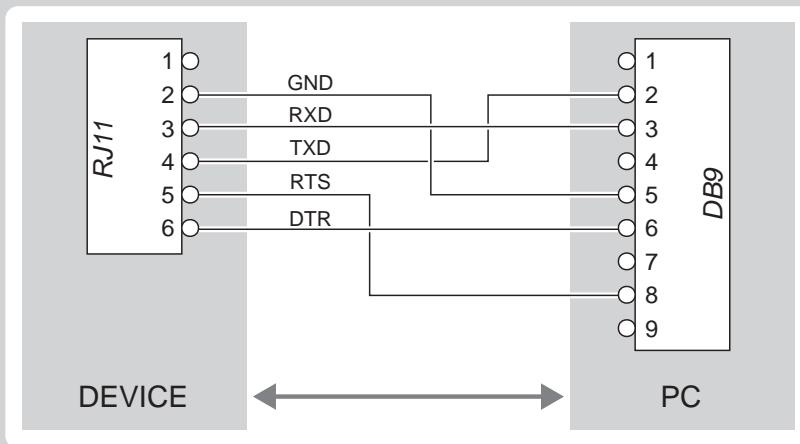
Female RJ11 connector

J3	1	+5VF
	2	GND
	3	RX1      During reception, oscillates between "0" and "1" depending on data
	4	TX1      During transmission, oscillates between "0" and "1" depending on data
	5	RT1
	6	DT1

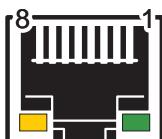
**Note:** Given the presence of the RS232 standard, logic value "0" corresponds to a voltage level of between +3 Vdc and +15 Vdc and logic value "1" corresponds to a voltage level of between -3 Vdc and -15 Vdc.

#### Note: VKP80II-EE > PC connection

The following pictures show an example of connections between the printer and a personal computer using a 9 pin female serial connector:



**Note:** When use a serial cable, we recommend the installation of a ferrite core on the serial cable.



## ETHERNET INTERFACE

RJ45 female connector

J15	1	TPOUT+
	2	TPOUT-
	3	TPIN+
	4	GND
	5	GND
	6	TPIN-
	7	n.c
	8	n.c
	9	+3.3 V
	10	LED-LAN
	11	+3.3 V
	12	LED-LNK
	13	Shield
	14	Shield

**Note:**

The functionality of two led are specified in the following table:

LED	FUNCTION
LED-LNK	Link (yellow color): the led lights up when a connection is active
LED-LAN	Rx/Tx: (green color): the led lights up when occurs a data reception or transmission

- To directly connect the printer to a Personal Computer, use a Cross-Over Ethernet cable.
- To connect the printer to a hub device, use an UTP Ethernet cable (Pin to Pin).

**Note:**

The pinout shown in table represents the input signals to component J15 before the isolation voltage transformer.

### **3. INSTALLATION**

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#### **3.5 Driver**

The drivers are available for the following operating system:

OPERATING SYSTEM	INSTALLATION PROCEDURE
Windows XP	
Windows VISTA (32/64bit)	From the START menu, press Enter and key-in the path where the SW was saved on your PC, then click OK. Follow the instructions that appear on the screen to install the driver.
Windows 7 (32/64bit)	
Opos	
Linux	Follow the instruction get back on the README.TXT file you can find it in the software package downloaded in advance.

All drivers can be found in the DOWNLOAD section of the web site [www.custom.biz](http://www.custom.biz).

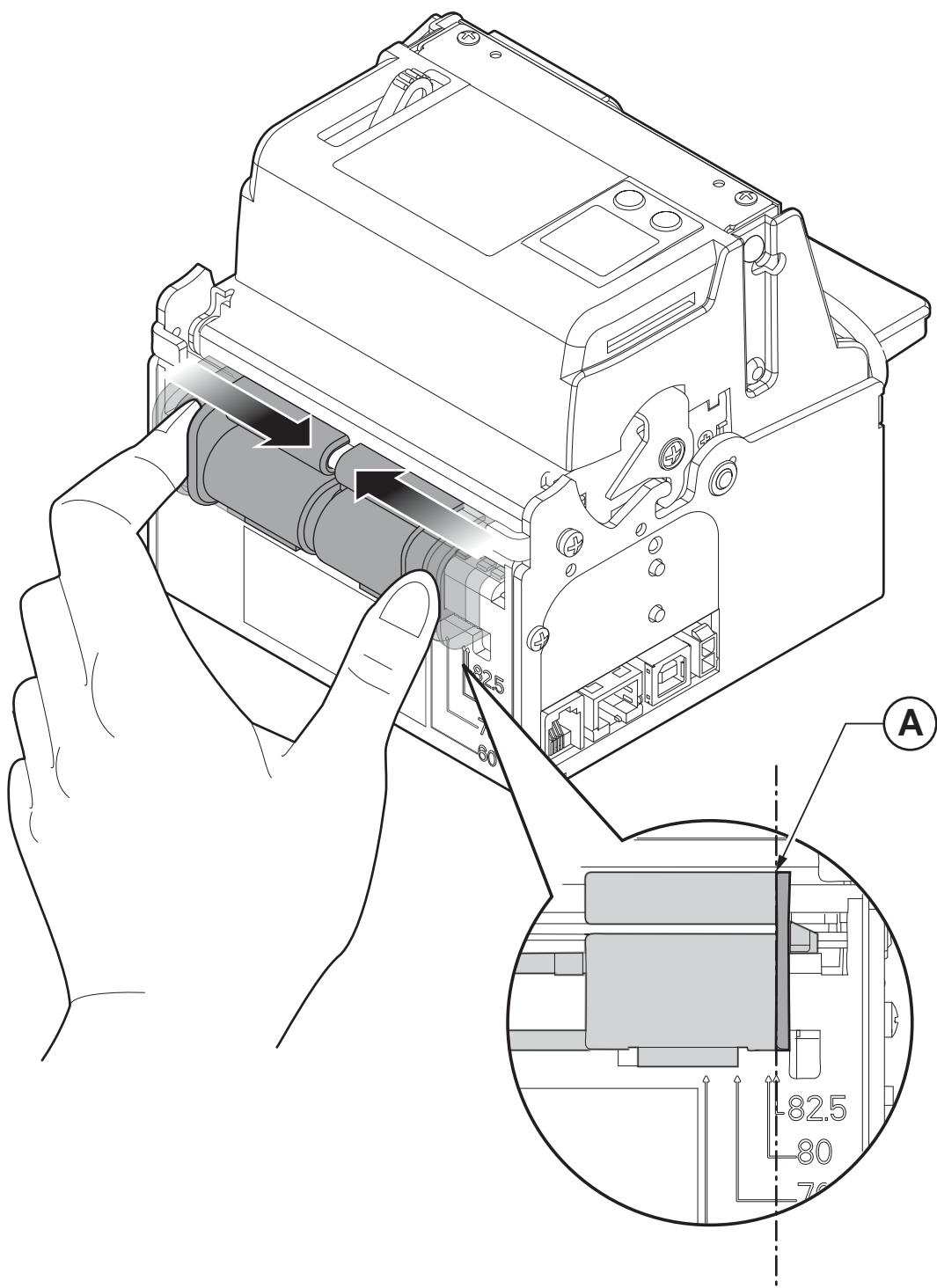
## 4 OPERATION

### 4.1 Adjusting paper width

Paper width may be adjusted from 60mm to 82.5mm using the right (Dx) and Left (Sx) slides located at the paper infeed opening.

Move the right and left slides to adjust the paper width (see following figure). Below the right slide there are four point of reference for paper width (60, 70, 80 and 82.5mm).

Move the slides to align the internal side of the fin (A) with the point of reference.

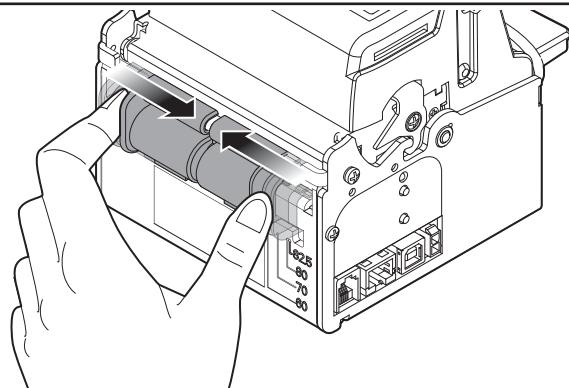


## 4. OPERATION

### 4.2 Paper roll insertion

At every change of paper roll, check inside the printer. To change the paper roll, proceed as follows:

1

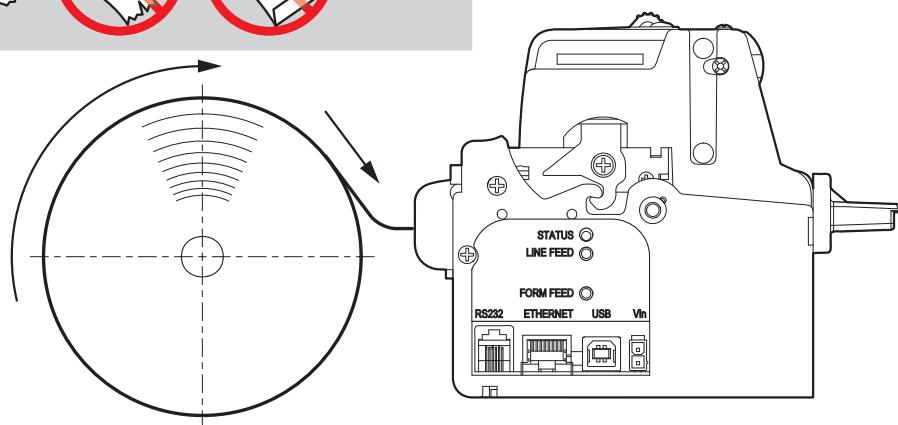


Adjust the paper width (see previous paragraphs).

2

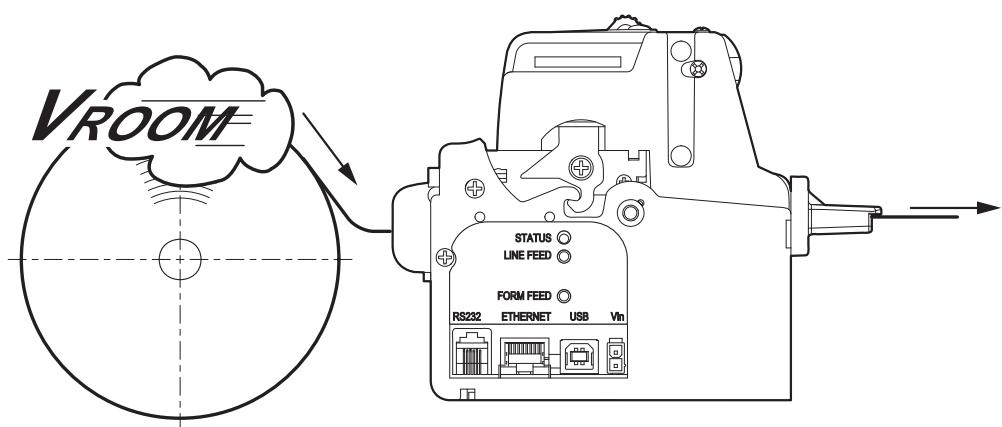
**ATTENTION:**

Make sure the cut is straight.



Position the paper roll, so that it unrolls correctly as shown in figure.

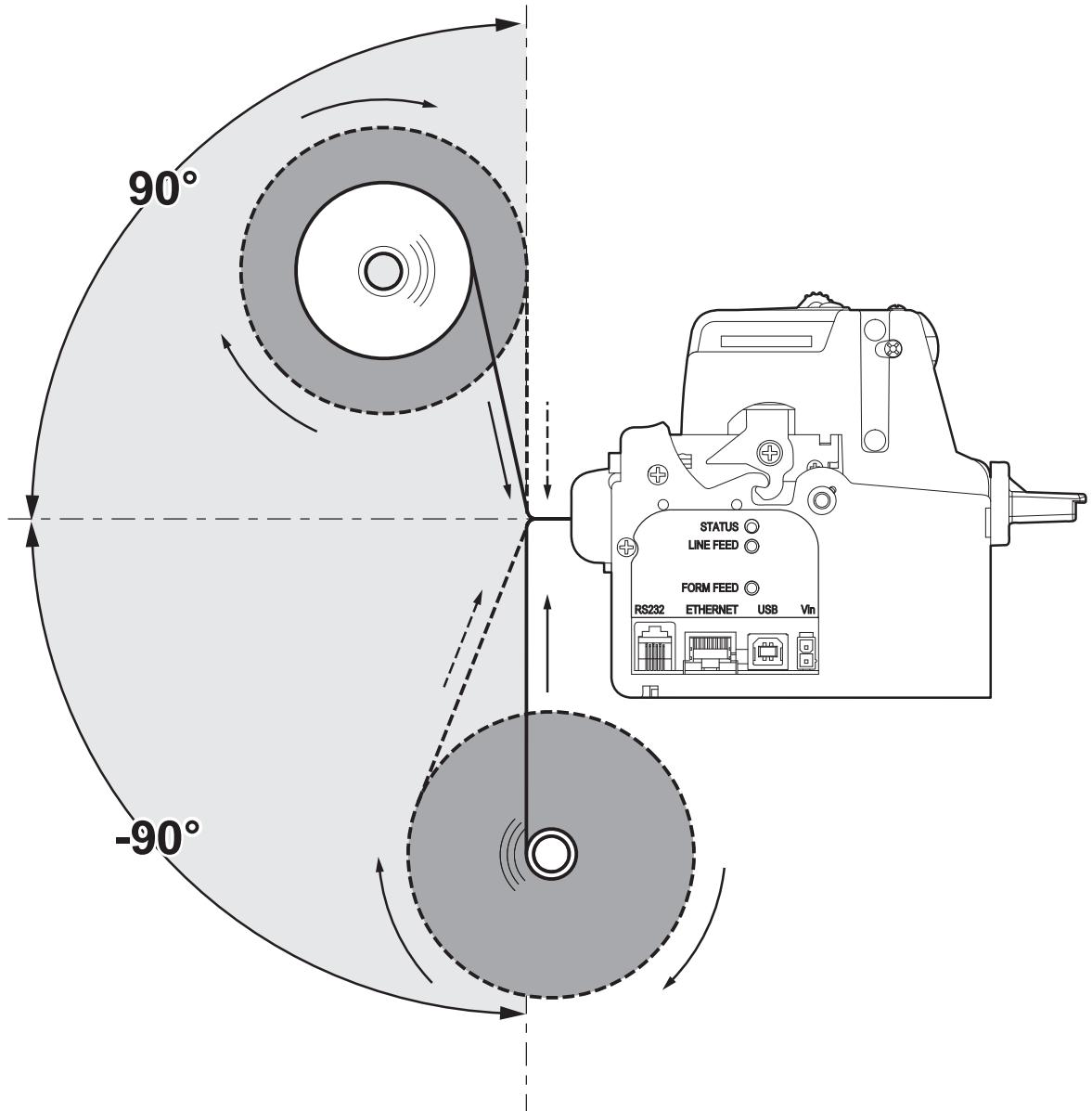
3



Insert the paper into the paper infeed opening and wait for it to load automatically.

The following figure gives the limit positions of the paper roll related to the printer for a correct paper loading without a paper roll holder support.

The direction of the paper will always form a maximum angle of  $90^\circ$  or  $-90^\circ$  with the insertion plane of paper inside the printer.



## **4. OPERATION**

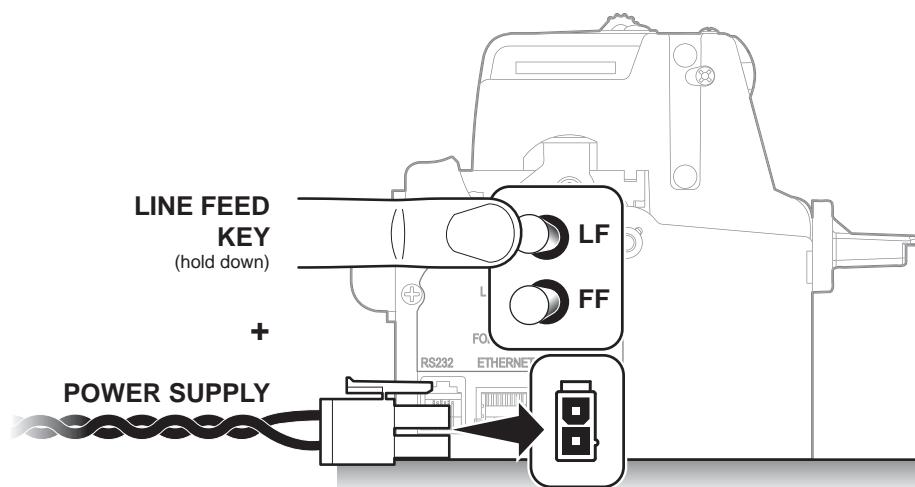
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## 5 CONFIGURATION

### 5.1 Configuration mode

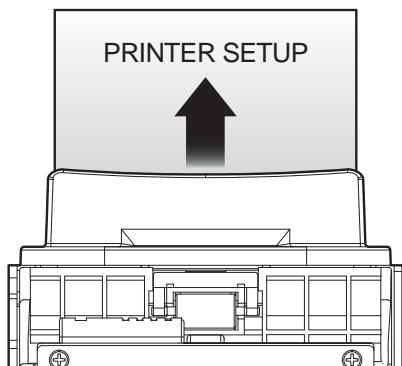
To enter the configuration mode and print a SETUP report with the operating parameters of the printer, proceed as follows.

1



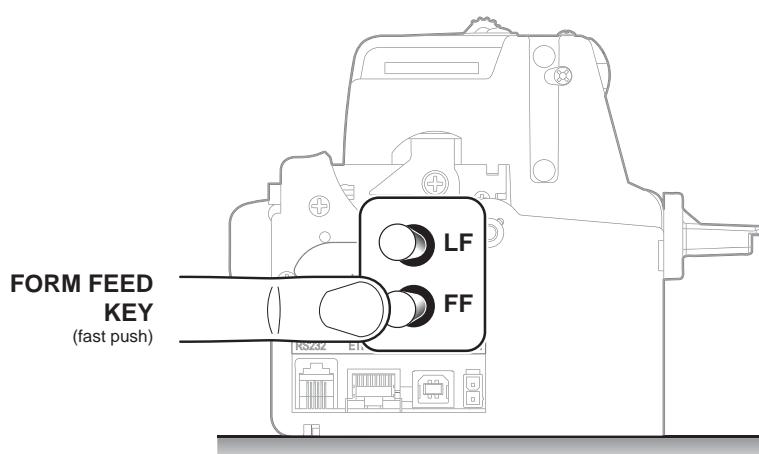
During power-up, hold down the LINE FEED key while the wiring is plugged into the power supply connector of the printer.

2



The device prints a SETUP report.

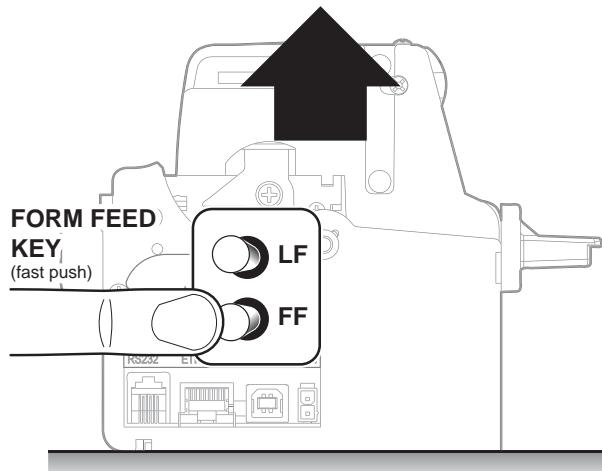
3



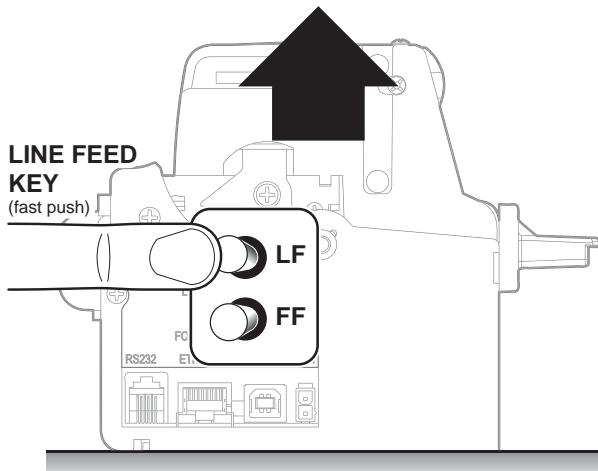
Press the FORM FEED key to enter the configuration mode

4

### ETHERNET PARAMETERS SETUP

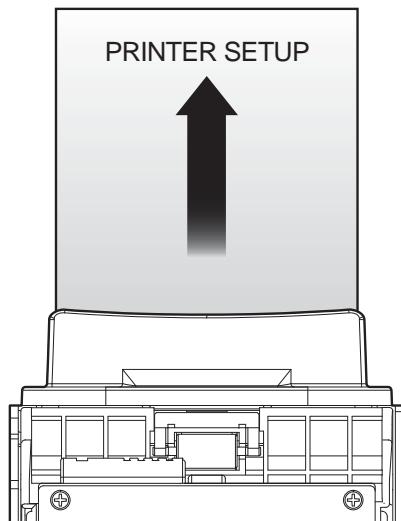


### PRINTER PARAMETERS SETUP



Press the FF FORM FEED key to enter the setup mode for the Ethernet parameters or press the LF LINE FEED key to enter the setup mode for the printer parameters.

5



Proceed with the configuration by using the keys according the functions printed on paper.  
For description and values of setup parameters, see the following paragraphs.

#### NOTE:

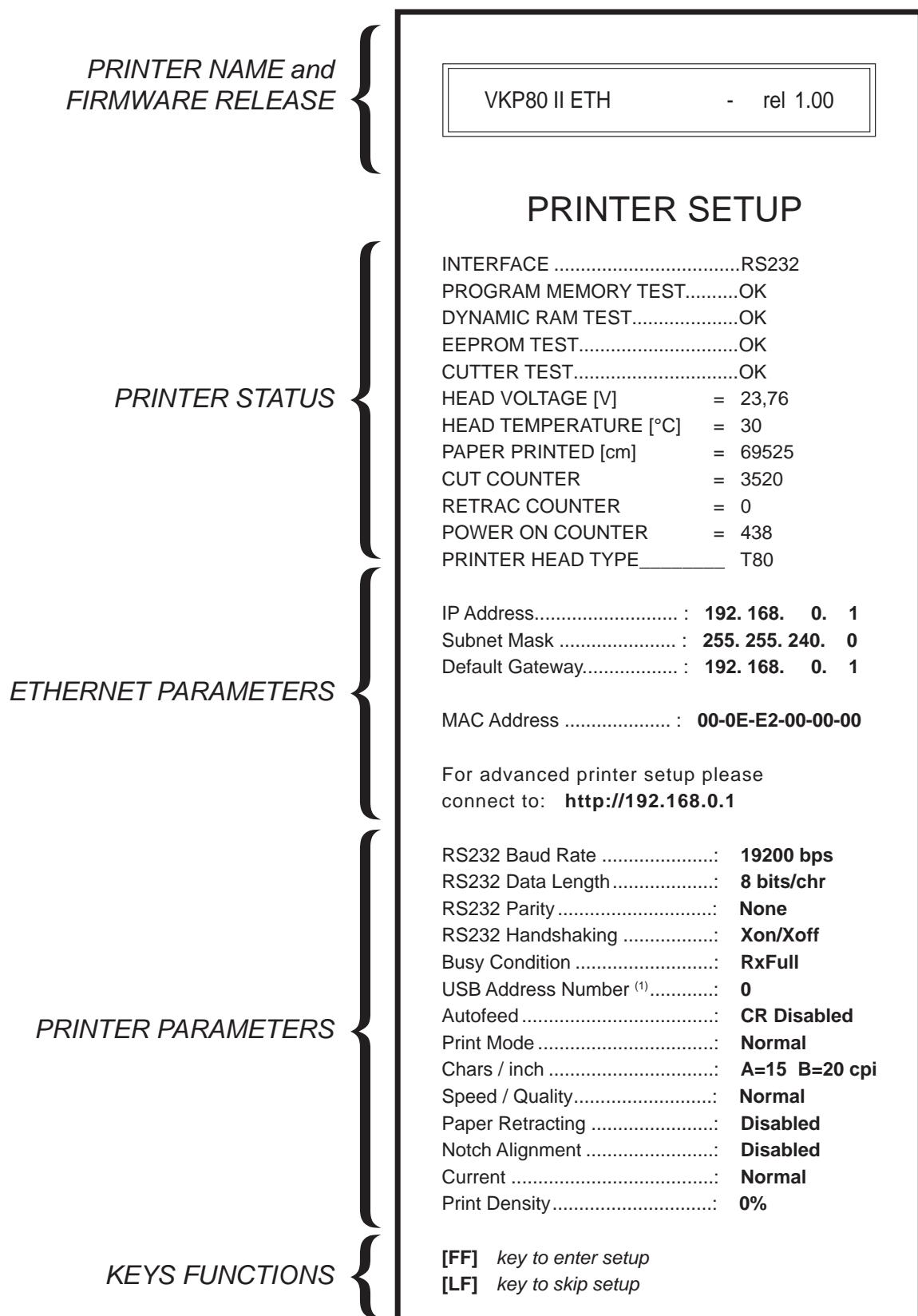
During power-up, if the LINE FEED key is held down, the printer enters the auto-test routine and prints out the setup report. The printer will remain in standby in Hexadecimal dump mode (see following paragraphs) until another key is pressed or characters are received through the printer communication port.

When the FORM FEED key is pressed, the printer enters parameter configuration.

When the LINE FEED key is pressed, the printer exits setup and terminates the Hexadecimal dump function.

## 5.2 Setup report

The following figure shows the setup report of the printer. The shown values for parameters are sample values; for the list and the description of printer parameters see the following paragraphs.



## 5. CONFIGURATION

---

### 5.3 Printer status

Printer operating status is indicated in the configuration print-out in which, next to the name of the components displayed, the following information is given:

<b>INTERFACE</b>	<i>is given the interface present</i>
<b>PROGRAM MEMORY TEST</b>	<i>the message OK appears if functioning and NOT OK if faulty.</i>
<b>DYNAMIC RAM TEST</b>	<i>the message OK appears if functioning and NOT OK if faulty.</i>
<b>EEPROM TEST</b>	<i>the message OK appears if functioning and NOT OK if faulty.</i>
<b>CUTTER TEST</b>	<i>the message OK appears if functioning and NOT OK if faulty.</i>
<b>HEAD VOLTAGE</b>	<i>is given the voltage of the head.</i>
<b>HEAD TEMPERATURE</b>	<i>is given the temperature of the head.</i>
<b>PAPER PRINTED</b>	<i>is given the number of centimetres of paper printed.</i>
<b>CUT COUNTER</b>	<i>is given the number of cuts made.</i>
<b>RETRACT COUNTER</b>	<i>is given the number of "retract" made</i>
<b>POWER ON COUNTER</b>	<i>is given the number of power-ups made</i>
<b>PRINTER HEAD TYPE</b>	<i>is given a reference for the printing head model</i>

## 5.4 Printer parameters

This printer allows the configuration of the parameters listed in the following table.

The parameters marked with the symbol <sup>D</sup> are the default values.

Settings remain active even after the printer has been turned off and they are stored in non-volatile memory.

### ATTENTION:

**Any changes to network parameters will interrupt browser connection. If the server not responding you must reconnect to the new IP address set.**

<b>IP ADDRESS</b>	<i>IP address of printer; this parameter is assigned by the network administrator.</i>									
	<p><b>NOTE:</b> Press the FORM FEED key to modify the value of the highlighted digit. Pressing LINE FEED key to move the cursor on the next digit (if the cursor is on the latest digit, proceed to next parameter by pressing the LINE FEED key).</p>									
<b>SUBNET MASK</b>	<i>This parameter identifies the local network address.</i>									
	<p><b>NOTE:</b> Press the FORM FEED key to modify the value of the highlighted digit. Pressing LINE FEED key to move the cursor on the next digit (if the cursor is on the latest digit, proceed to next parameter by pressing the LINE FEED key).</p>									
<b>DEFAULT GATEWAY</b>	<i>This parameter identifies the Gateway IP address used to send applications to the external network.</i>									
	<p><b>NOTE:</b> Press the FORM FEED key to modify the value of the highlighted digit. Pressing LINE FEED key to move the cursor on the next digit (if the cursor is on the latest digit, proceed to next parameter by pressing the LINE FEED key).</p>									
<b>MAC ADDRESS</b>	<i>This is the number, provided by the constructor, that identifies the printer; this number is univocal.</i>									
	<p><b>NOTE:</b> This parameter can't be modified by set up.</p>									
<b>RS232 BAUD RATE</b>	<i>Communication speed of the serial interface:</i>									
	<table> <tr> <td>230400</td> <td>38400</td> <td>4800</td> </tr> <tr> <td>115200</td> <td>19200<sup>D</sup></td> <td>2400</td> </tr> <tr> <td>57600</td> <td>9600</td> <td>1200</td> </tr> </table>	230400	38400	4800	115200	19200 <sup>D</sup>	2400	57600	9600	1200
230400	38400	4800								
115200	19200 <sup>D</sup>	2400								
57600	9600	1200								
<b>RS232 DATA LENGTH</b>	<i>Number of bit used for characters encoding:</i>									
	<p>7 bits/car 8 bits/car<sup>D</sup></p>									
<b>RS232 PARITY</b>	<i>Bit for the parity control of the serial interface:</i>									
	<p>None<sup>D</sup> = parity bit omitted Even = even value for parity bit Odd = odd value for parity bit</p>									
<b>RS232 HANDSHAKING</b>	<i>Handshaking:</i>									
	<p>XON/XOFF = software handshaking Hardware<sup>D</sup> = hardware handshaking (CTS/RTS)</p>									

## 5. CONFIGURATION

<b>BUSY CONDITION</b>	<i>Activation mode for Busy signal:</i>
	<i>RXFull<sup>D</sup> = Busy signal is activated when the buffer is full</i> <i>OffLine/ RXFull = Busy signal is activated when the printer is both in OffLine status and the buffer is full</i>
	<b>NOTE:</b> Parameter valid only with serial interface; using this parameter, it is possible to select whether the Busy signal is activated when the printer is both in Off Line status and the buffer is full or only if the reception buffer is full.
<b>USB ADDRESS NUMBER</b>	<i>Numerical address code for the univocal identification of the USB device (in case of more than a USB device connected with the same PC):</i>
	0 <sup>D</sup> 3      6      9 1      4      7 2      5      8
	<b>NOTE:</b> This parameter is used to identify univocally the USB printer by a numerical address code, if on the PC are connected two printers that are the same models.
<b>AUTOFEEDE</b>	<i>Setting of the Carriage Return character:</i>
	<i>CR disabled<sup>D</sup> =Carriage Return disabled</i> <i>CR enabled = Carriage Return enabled</i>
<b>PRINT MODE</b>	<i>Printing mode:</i>
	<i>Normal<sup>D</sup> = enables printing in normal writing way</i> <i>Reverse = enables printing rotated 180 degrees</i>
<b>CHARS / INCH</b>	<i>Font selection:</i>
	<i>A = 11 cpi, B = 15 cpi</i> <i>A = 15 cpi, B = 20 cpi<sup>D</sup></i>
	<b>NOTA:</b> CPI = Characters Per Inch
<b>SPEED / QUALITY</b>	<i>Setting of printing speed and printing quality:</i>
	<i>High Quality</i> <i>Normal<sup>D</sup></i> <i>High Speed</i>
<b>PAPER RETRACTING</b>	<i>Setting of the “retract” function of the paper, with paper presence on ejector during power-up:</i>
	<i>Disabled<sup>D</sup> = “retract” function disabled</i> <i>Enabled = “retract” function enabled</i>
	<b>NOTE:</b> During power-up, if paper is present on the ejector and if this parameter is set to “Enabled”, the printer will retract the paper. Otherwise, if the parameter is set to “Disabled”, the printer will eject the paper.
<b>NOTCH ALIGNMENT</b>	<i>Alignment management:</i>
	<i>Disabled<sup>D</sup> = the notch alignment is not performed</i> <i>Enabled = the notch alignment is performed</i>
<b>NOTCH THRESHOLD</b>	<i>Threshold value (in percent) for the recognition of the presence of notch by the notch sensor:</i>
	0,5      1,5      2,5      3,5      4,5 1,0      2,0 <sup>D</sup> 3,0      4,0
	<b>NOTE:</b> If the “Notch Alignment” parameter is disabled, this parameter is not printed.

**NOTCH DISTANCE**

"Notch Distance" is the minimum distance (in mm) between the upper edge of ticket and the notch.

The numeric value of the distance is made up with the following four parameters for the setting of three digits (two for the integer part of the number and one for the decimal part) and of the sign:

*Setting the digit for tens:*

**NOTCH DISTANCE [mm x 10]**

0 <sup>D</sup>	2	4	6	8
1	3	5	7	9

*Setting the digit for units:*

**NOTCH DISTANCE [mm x 1]**

0 <sup>D</sup>	2	4	6	8
1	3	5	7	9

**NOTE:** For example, to set the notch distance to 15 mm, modify the parameters as follows:

Notch Distance [mm x 10] = 1

Notch Distance [mm x 1] = 5

**NOTE:** If the "Notch Alignment" parameter is disabled, the parameters for the "Notch Distance" are not printed.

**NOTE:** In Setup mode, it is possible to set the notch distance using a values range from 0mm to 39mm. The maximum distance accepted is 32mm, so even if values from 33mm to 39mm are inserted, the distance remains 32mm.

**CURRENT**

*Setting of the current consumption:*

Low

High

Normal<sup>D</sup>

**PRINT DENSITY**

*Adjusting the printing density:*

-50%	-12%	+25%
------	------	------

-37%	0 <sup>D</sup>	+37%
------	----------------	------

-25%	+12%	+50%
------	------	------

## 5. CONFIGURATION

---

### 5.5 Hexadecimal dump

This function is used to diagnose the characters received through the communication port; the characters are printed out both as hexadecimal codes and ASCII codes.

Once the self-test routine has finished, the printer enters Hexadecimal Dump mode. The printer remains in standby until a key is pressed or characters are received through the communication port. For example, in the 200 dpi model, for every 8 characters received, the hexadecimal and corresponding ASCII codes are printed out (if the characters are underlined, the receive buffer is full).

Shown below is an example of a Hexadecimal Dump:

HEXADECIMAL DUMP	
31 32 33 34 35 36 37 38	12345678
39 30 31 32 33 34 35 36	90123456
37 38 39 75 69 73 64 66	789uisdf
68 6B 6A 73 64 68 66 68	hkjsdhfh
73 64 66 6B 6A 68 73 64	sdfkjhsd
66 73 64 66 6B 68 6A 77	fsdfkhjw
65 69 6F 79 75 77 71 65	eioyuwqe
6F 72 69 75 77 65 72 69	oriuweri
6F 75 77 65 72 69 6F 75	ouweriou
77 65 72 69 6F 75 77 65	weriouwe
72 69 6F 75 77 65 72 68	riouwerh
6B 6C 73 64 66 68 6B 73	klsdfhks
64 66 6B 73 64 66 68 6A	dflsdjh
73 64 66 6B 6A F2 73 64	sdfkj≥sd
66 6B F2 6A 73 68 64 66	fk≥jshdf
6A 6B 6C 68	jklh

## 6 MAINTENANCE

### 6.1 Planning of cleaning operations

The regular cleaning of the device keeps the print quality and extends its life. The following table shows the recommended planning for the cleaning operations.

EVERY ROLL CHANGE	
Printing head	Use isopropyl alcohol
Rollers	Use isopropyl alcohol
EVERY 5 ROLL CHANGES	
Cutter	Use compressed air
Paper path	Use compressed air or tweezers
Sensors	Use compressed air
EVERY 6 MONTHS OR AS NEEDED	
Printer case	Use compressed air or a soft cloth

For specific procedures, see the following pages.

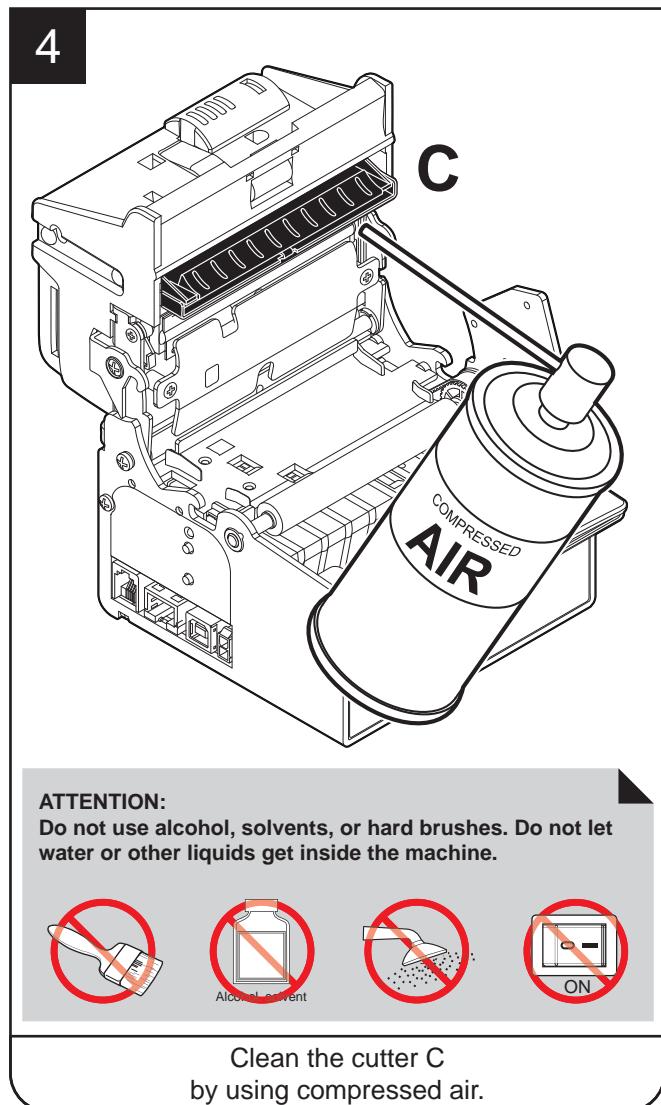
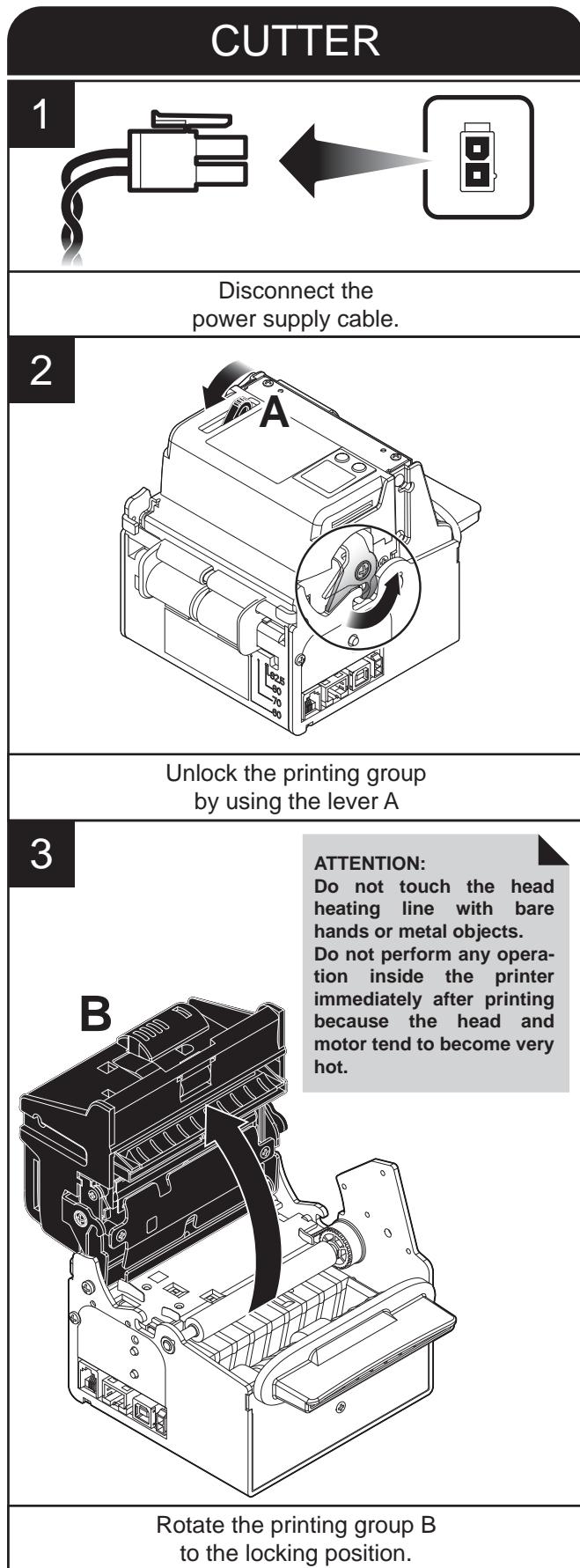
**NOTE:**

If you use the device in dusty environments, you must reduce the intervals between the cleaning operations.

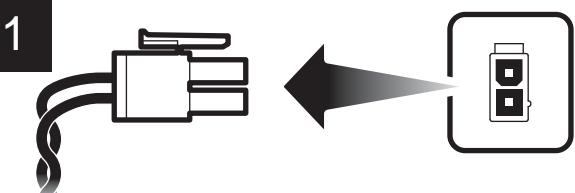
## 6. MAINTENANCE

### 6.2 Cleaning

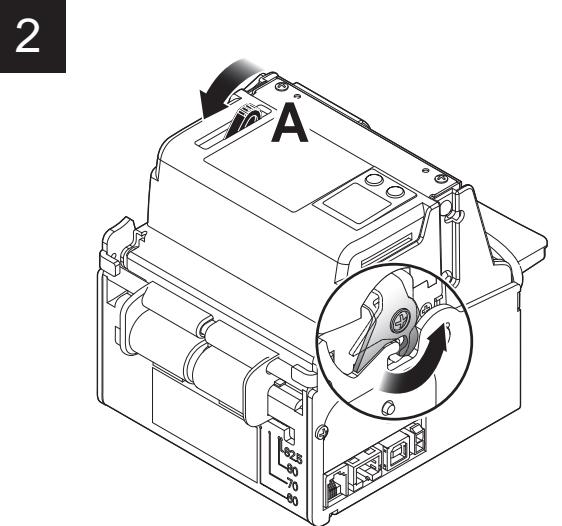
For periodic cleaning of the printer, see the instructions below.



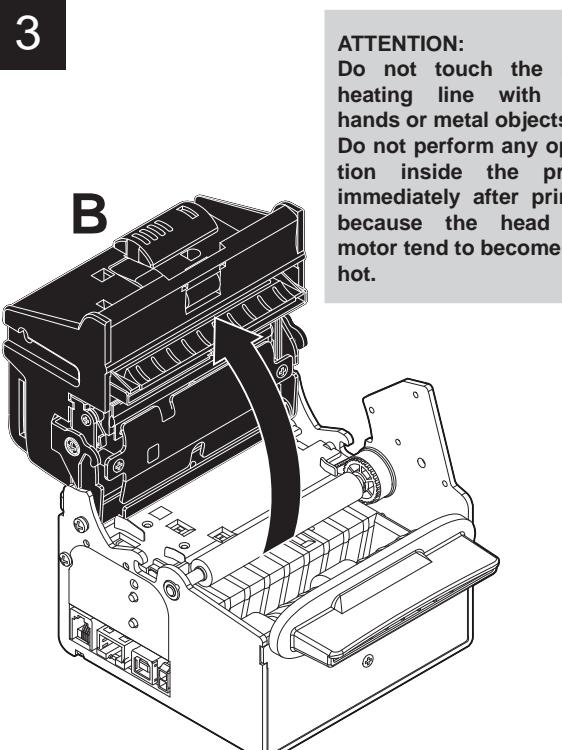
SENSORS



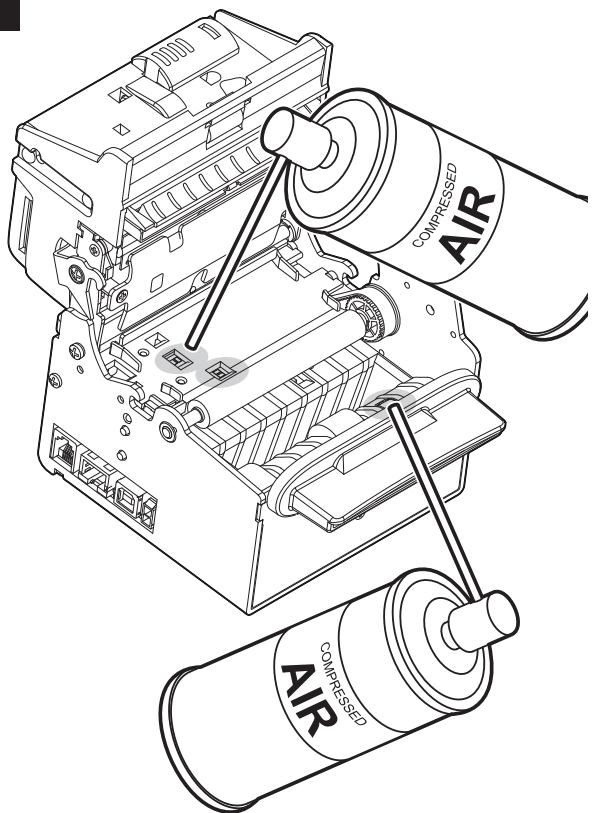
Disconnect the power supply cable.



Unlock the printing group  
by using the lever A



Rotate the printing group B to the locking position.



**ATTENTION:**

**Do not use alcohol, solvents, or hard brushes.**

**Do not let water or other liquids get inside the machine.**



A red circle with a diagonal slash over a perfume bottle icon.

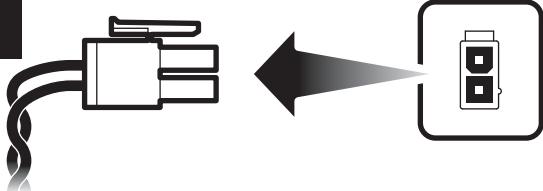


Carefully clean the notch and the paper presence sensors by using compressed air.

## 6. MAINTENANCE

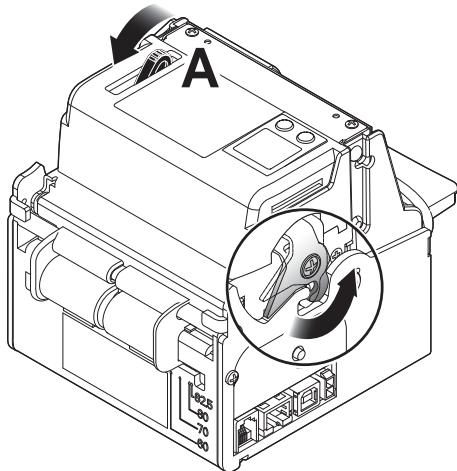
### PAPER PATH

1



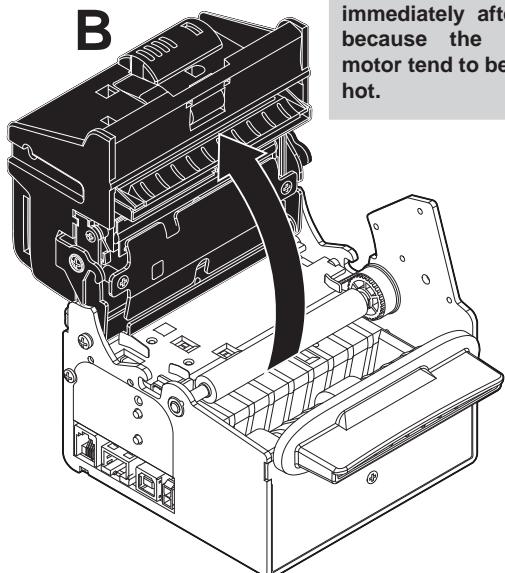
Disconnect the power supply cable.

2



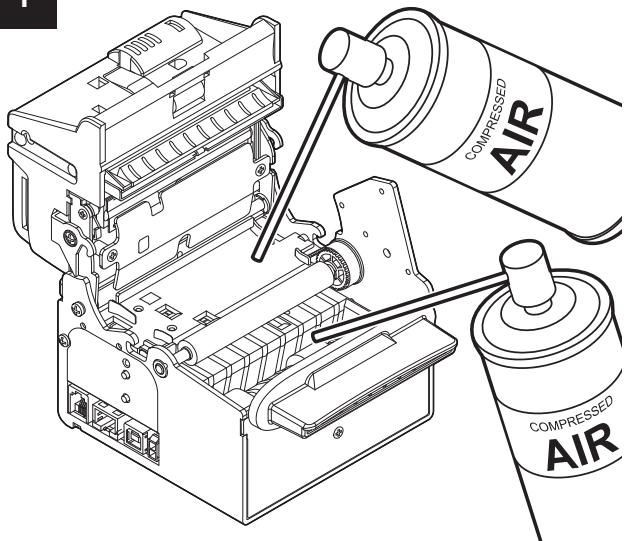
Unlock the printing group by using the lever A

3



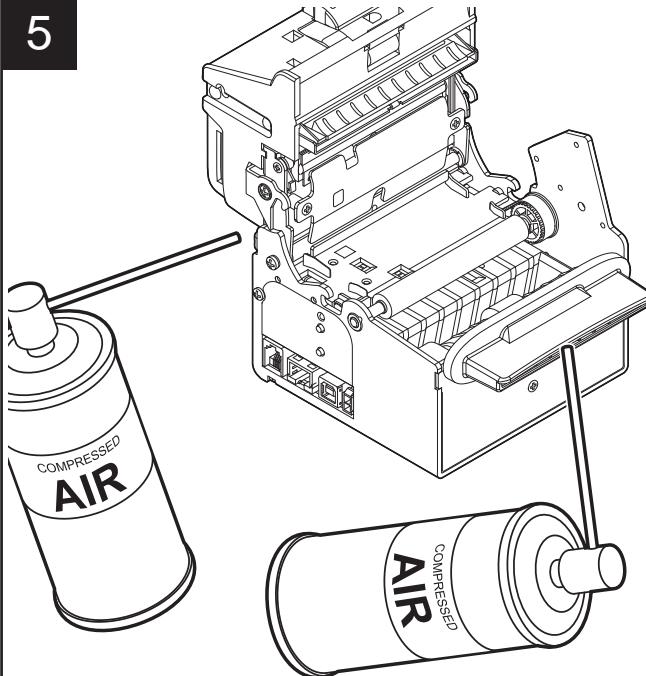
Rotate the printing group B to the locking position.

4



Clean the plastic flat and the ejector roller by using compressed air.

5



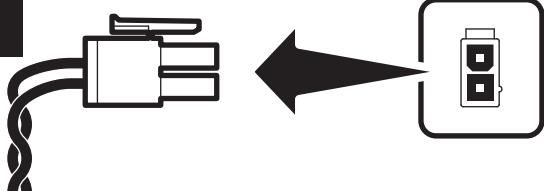
**ATTENTION:**  
Do not use alcohol, solvents, or hard brushes.  
Do not let water or other liquids get inside the machine.  
To remove paper scraps, use tweezers or compressed air.



Clean the paper input and output by using compressed air.

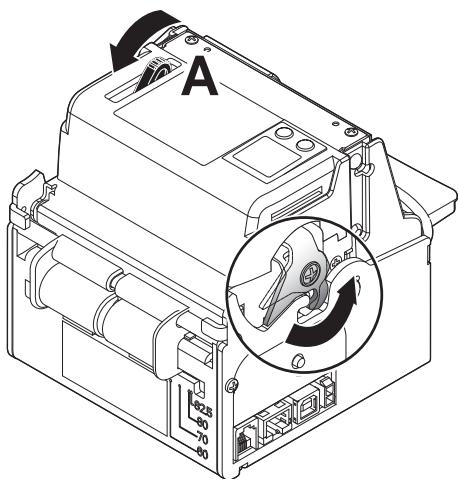
## PRINTING HEAD

1



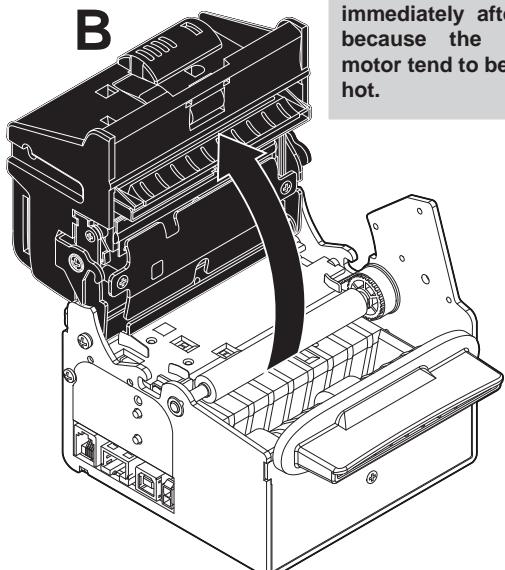
Disconnect the power supply cable.

2



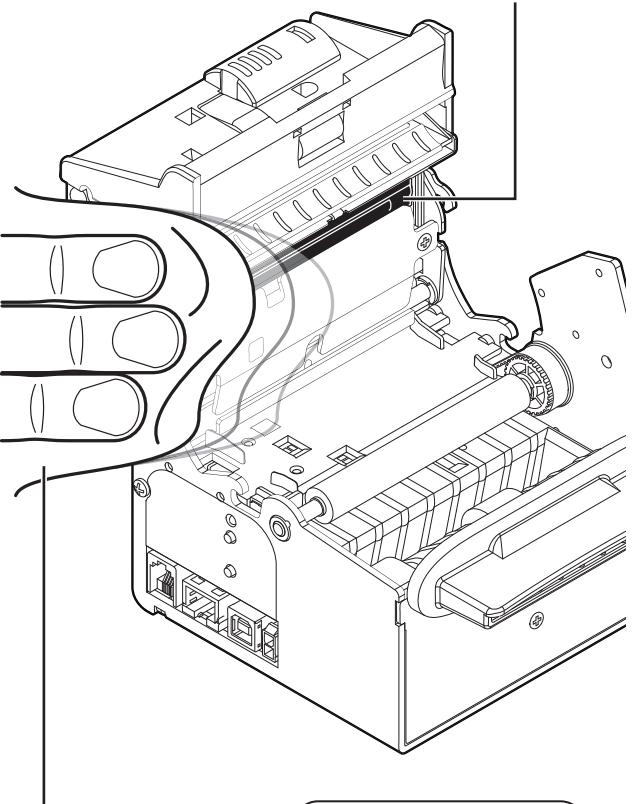
Unlock the printing group by using the lever A

3



Rotate the printing group B to the locking position.

4



ISOPROPYL ALCOHOL

### ATTENTION:

Do not use alcohol or hard brushes.

Do not let water or other liquids get inside the machine..

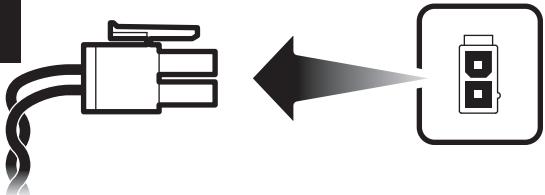


Clean the printing head by using a soft cloth moistened with isopropyl

## 6. MAINTENANCE

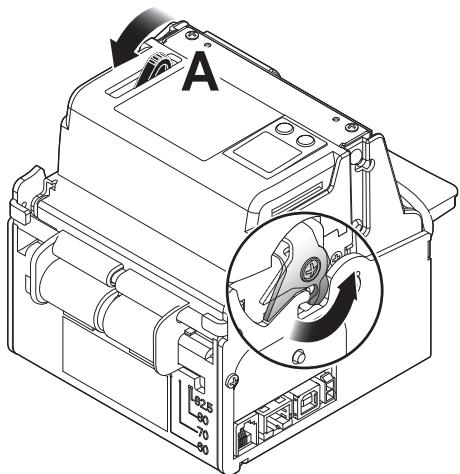
### DRAGGING ROLLER

1



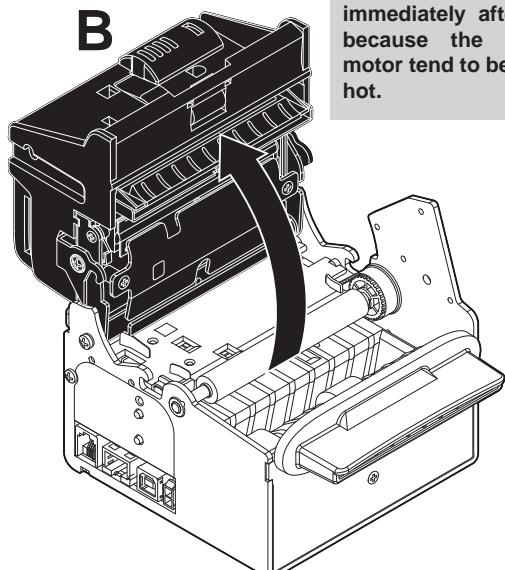
Disconnect the power supply cable.

2



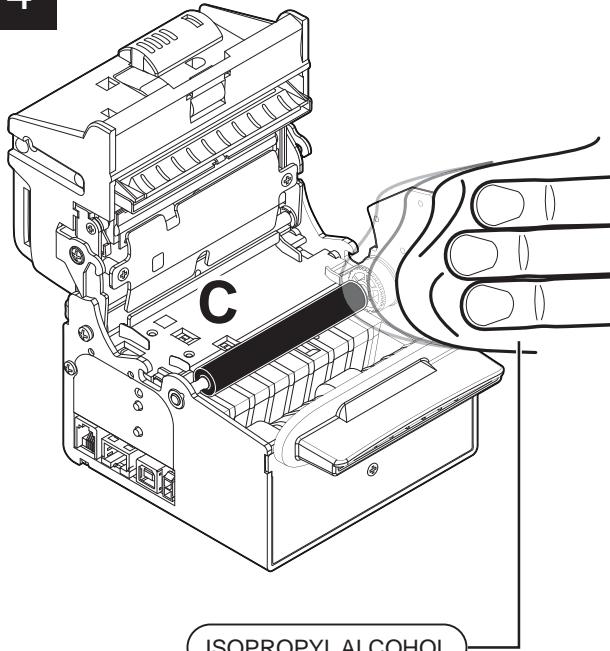
Unlock the printing group by using the lever A

3



Rotate the printing group B to the locking position.

4



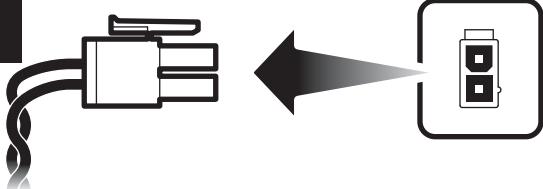
**ATTENTION:**

Do not use alcohol or hard brushes.

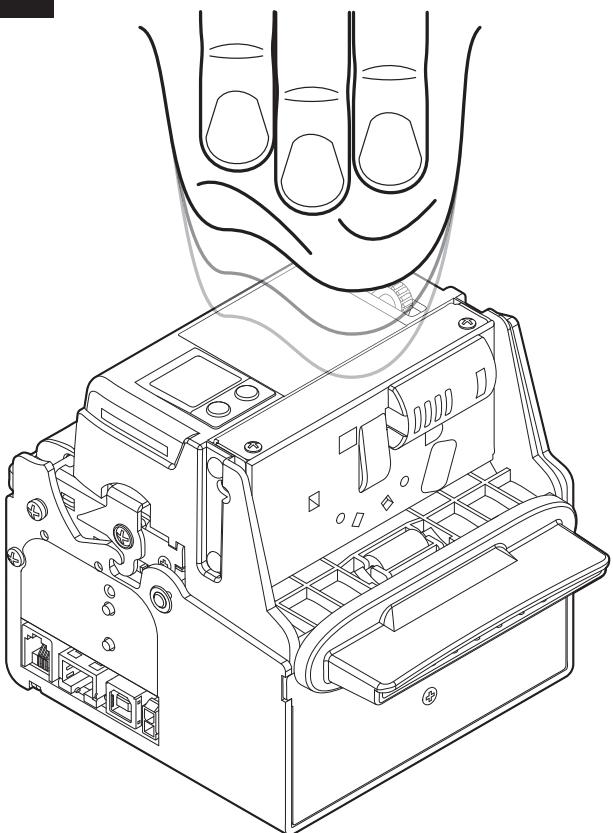
Do not let water or other liquids get inside the machine..



Clean the dragging roller C by using a soft cloth moistened with isopropyl.

**CASE****1**

Disconnect the power supply cable.

**2****ATTENTION:**

Do not use alcohol, solvents, or hard brushes.  
Do not let water or other liquids get inside the machine.



To clean the machine,  
use pneumatic air or soft cloth.

## 6. MAINTENANCE

### 6.3 Upgrade firmware

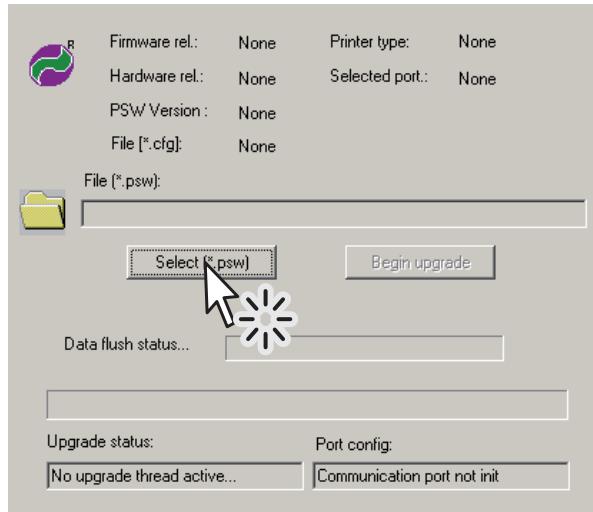
**WARNING:** During communication between PC/printer for the firmware update it is strictly forbidden to disconnect the communication cable or to remove the power supply of the devices not to endanger the proper functioning of the printer.

**Note:** Install on the PC used for printer upgrading the UPGCEPRN software available in the download area of the web site [www.custom.biz](http://www.custom.biz).

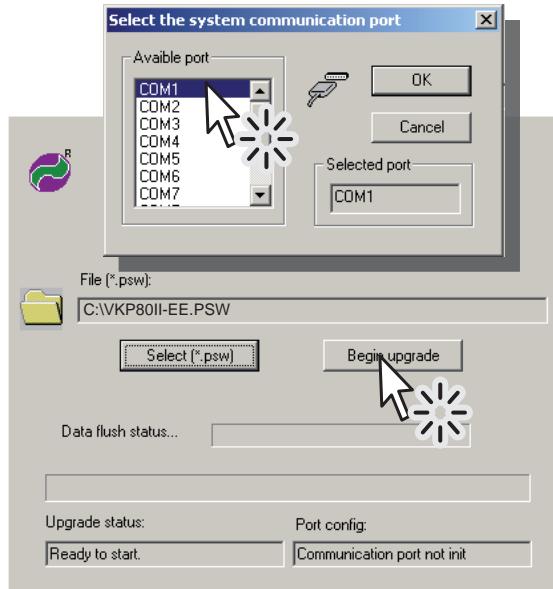
#### UPDATE VIA SERIAL INTERFACE

Proceed as follows:

1. Write down the product code (14 digits) printed on the product label (see par. 2.2).
2. Go to the web site [www.custom.biz](http://www.custom.biz) and download the appropriate firmware release from the DOWNLOAD area.
3. Print the SETUP report (see chapter 5).
4. Switch OFF the printer.
5. Connect the printer to the PC using a USB cable or a serial cable (see paragraph 3.3).
6. Switch ON the printer.
7. Start the software UPGCEPRN.
8. Select the update file .PSW location :



9. Select the serial communication port (ex. COM1):



10. Detecting and setting of the parameters necessary for serial communication are performed automatically and then updating begins.
11. After a few minutes a message on the screen warns that the update is completed.



12. Print a new SETUP report to verify the new firmware release (see chapter 5).

**UPDATE VIA USB INTERFACE**

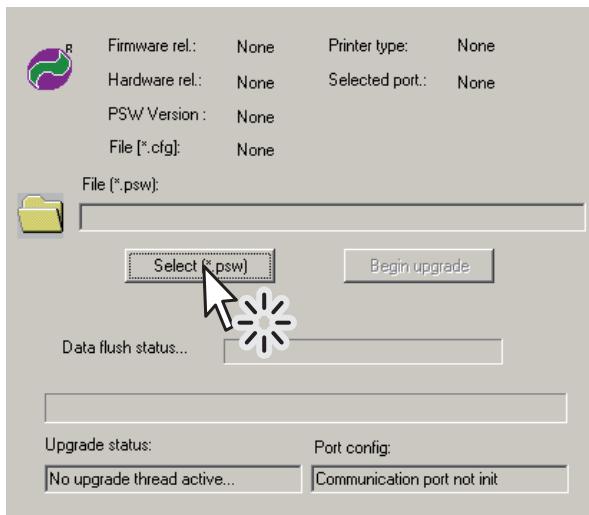
**ATTENTION:** Only during the firmware update, the connection between PC and printer must be direct, without the use of wireless HUB.

**ATTENTION:** Only during the firmware update, do not connect or disconnect other USB devices.

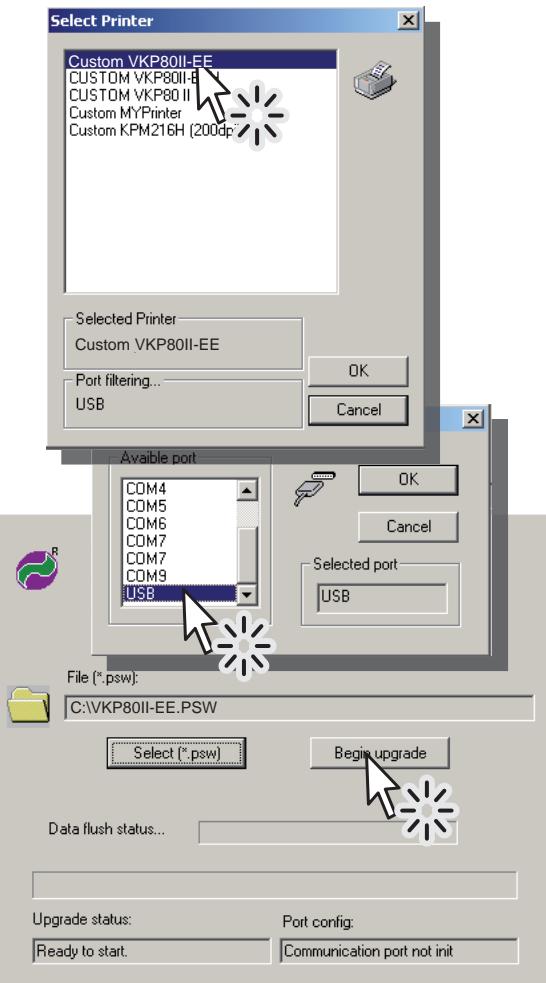
**NOTE:** For communication via USB you must install on PC the printer driver available in the download area of the web site [www.custom.biz](http://www.custom.biz).

Proceed as follows:

1. Write down the product code (14 digits) printed on the product label (see par. 2.2).
2. Go to the web site [www.custom.biz](http://www.custom.biz) and download the appropriate firmware release from the DOWNLOAD area.
3. Print the SETUP report (see chapter 5).
4. Switch OFF the printer.
5. Connect the printer to the PC using a USB cable or a serial cable (see paragraph 3.3).
6. Switch ON the printer.
7. Start the software UPGCEPRN.
8. Select the update file .PSW location :



9. Select item USB and then select the USB device among those proposed (ex. VKP80II-EE):



10. After a few minutes a message on the screen warns that the update is completed.



11. Print a new SETUP report to verify the new firmware release (see chapter 5).

## **6. MAINTENANCE**

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## 7 SPECIFICATIONS

### 7.1 Hardware specifications

GENERAL	
Sensors	Printing head temperature, notch presence, paper presence, paper presence on output, printing unit open, (near paper end on external paper roll holder optional)
Emulations	ESC/POS™
INTERFACES	
RS232 serial connector	from 1200 to 115200 bps
USB connector	12 Mbit/sec
ETHERNET connector	10 Mbit/sec
MEMORIES	
Flash memory	384 Kbytes
Receive buffer	24 Kbytes
PRINTER	
Resolution	203 DPI (8 dot/mm)
Printing method	thermal, fixed head
Printing mode	normal, 90°, 180°, 270°
Printing format	height/width from 1 to 8, bold, reverse, underlined, italic
Character fonts	PC437, PC850, PC860, PC863, PC865, PC858 (euro)
Printing speed	High quality = 80 mm/sec Normal = 180 mm/sec High speed = 220 mm/sec
PAPER	
Type of paper	Thermal rolls, thermal side on outside of roll
Recommended types of paper <sup>(1)</sup>	from 55 g/m² to 110 g/m² (KANZAN)
Paper width <sup>(2)</sup>	from 60 mm to 82,5 mm
External roll diameter	max 180mm <sup>(4)</sup> upper fixing : max 150mm <sup>(5)</sup> rear or lower fixing : max 180mm <sup>(5)</sup>
Internal roll core diameter	25 mm
Core type	Cardboard or plastic

## 7. SPECIFICATIONS

### ELECTRICAL SPECIFICATIONS VKP80II-EE

Power supply	24 Vdc ±10% (optional external power supply)
Medium consumption <sup>(6) (7)</sup>	1 A
Stand-by consumption <sup>(6)</sup>	0,04 A

### ELECTRICAL SPECIFICATIONS POWER SUPPLY cod.963GE020000003 (OPTIONAL)

Power supply voltage	from 100Vac to 240Vac
Frequence	from 50Hz to 60Hz
Current (output)	24 Vdc ± 10%
Power	60 W

### ENVIRONMENTAL CONDITIONS

Operating temperature	from -20°C to +70°C ±10%
Relative humidity	from 10% Rh to 80% Rh
Storage temperature	from -20 °C to +70 °C
Storage relative humidity	from 10% Rh to 90% Rh

#### NOTES:

<sup>(1)</sup> : For paper from 90 g/m<sup>2</sup> to 110 g/m<sup>2</sup> enable the dispenser continuous mode with command (\$1D \$65, see Command Reference).

<sup>(2)</sup> : For ticket width = 60mm do not exceed a max length of 250mm.

<sup>(3)</sup> : It's better to use an external shock absorber for rolls with a diameter higher than or equal to 100mm.

<sup>(4)</sup> : Referred to model with paper holder support.

<sup>(5)</sup> : Referred to model without paper holder support.

<sup>(6)</sup> : Referred to "Normal" value for "Current" parameter (see Printer Setup).

<sup>(7)</sup> : Referred to a standard CUSTOM receipt (L = 10cm, Density = 12,5% dots on).

## 7.2 Character specifications

ESC/POS™ EMULATION			
Character density	11 cpi	15 cpi	20 cpi
Number of columns	88	123	160
Printing speed			
Chars / sec	1760	2460	3200
Lines / sec	20	20	20
Characters (L x H mm)			
Normal	2,25 x 3	1,625 x 3	1,25 x 3

## 7.3 Ejector specifications

EJECTOR		
	Ticket length	Ticket presentation
"Retracting" function	70 mm	10 mm
	80 mm	10 mm - 30 mm
	80 mm - 220 mm	10 mm - 30 mm
"Ejecting" function	Ticket length	Ticket presentation
	60 mm	10 mm
	> 80mm	10 mm - 30 mm
	350 mm <sup>(1)</sup>	10 mm - 30 mm

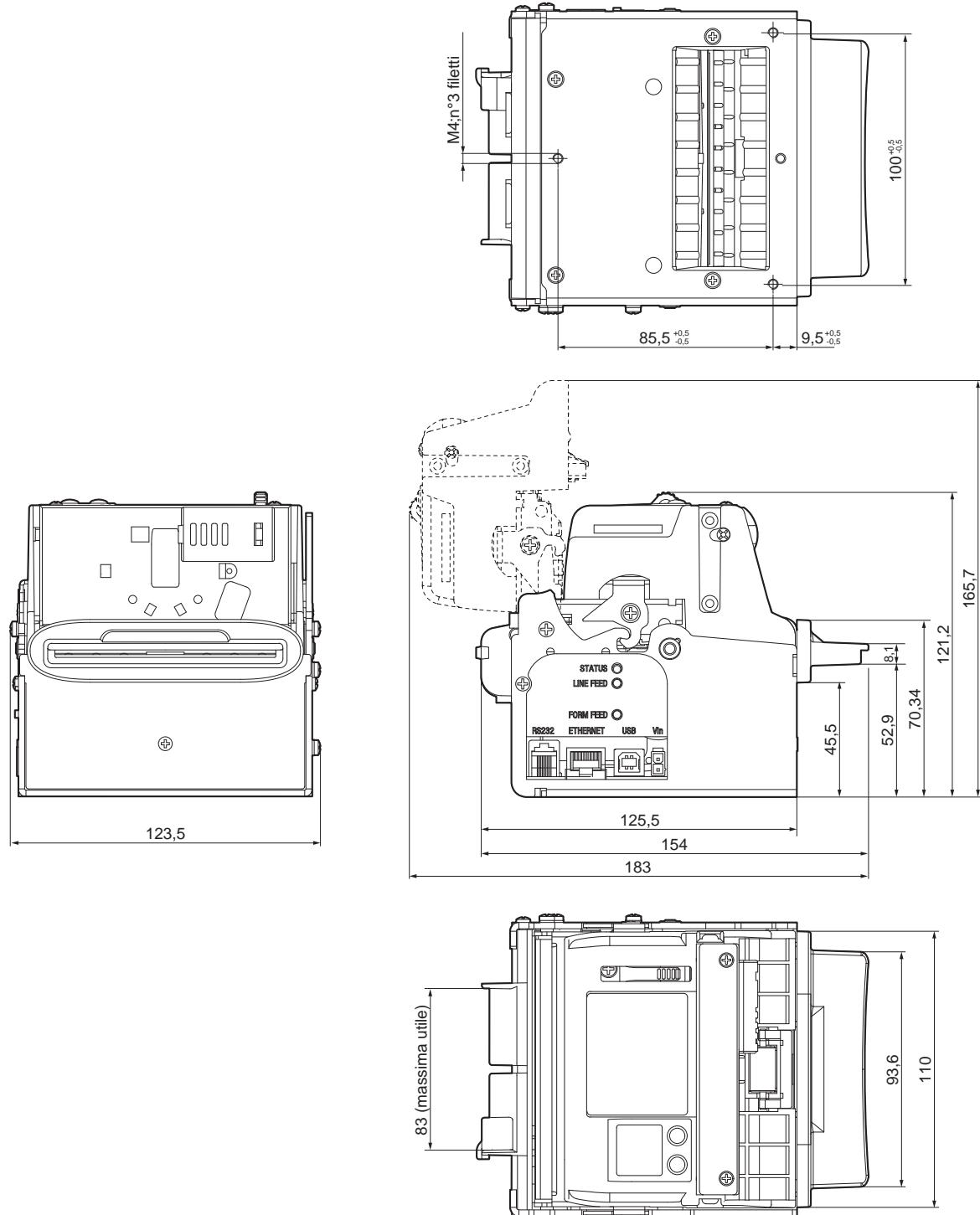
**NOTE:**

<sup>(1)</sup> : Maximum length recommended to guarantee the printer efficiency.

## 7. SPECIFICATIONS

### 7.4 Printer dimensions

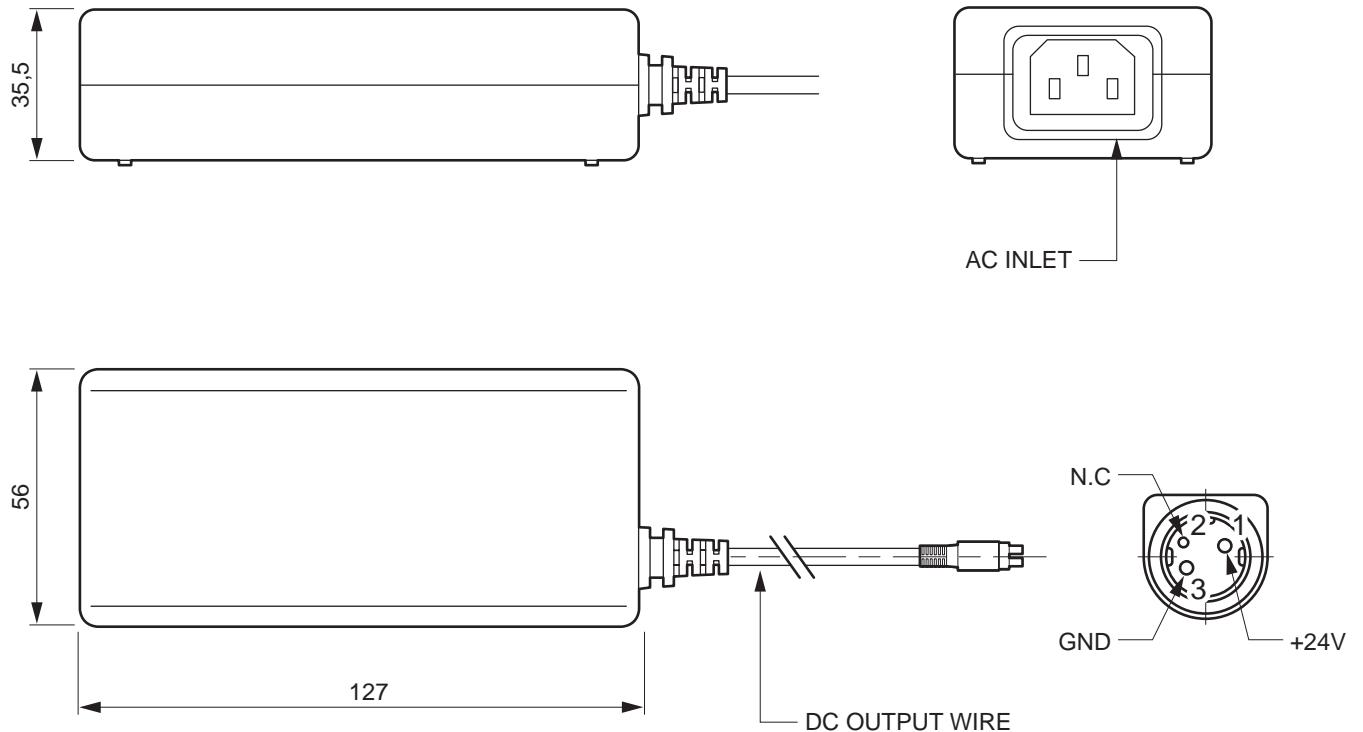
Length	(with printing group closed) 154 mm (with printing group open) 183 mm
Height	(with printing group closed) 121,2 mm (with printing group open) 165,7 mm
Width	123,5 mm
Weight	1600 g



**NOTE:** Referred to printer models without paper roll holder optional.

### 7.5 Power supply dimensions cod.963GE02000003 (optional)

Length	127 mm
Height	35,5 mm
Width	56 mm



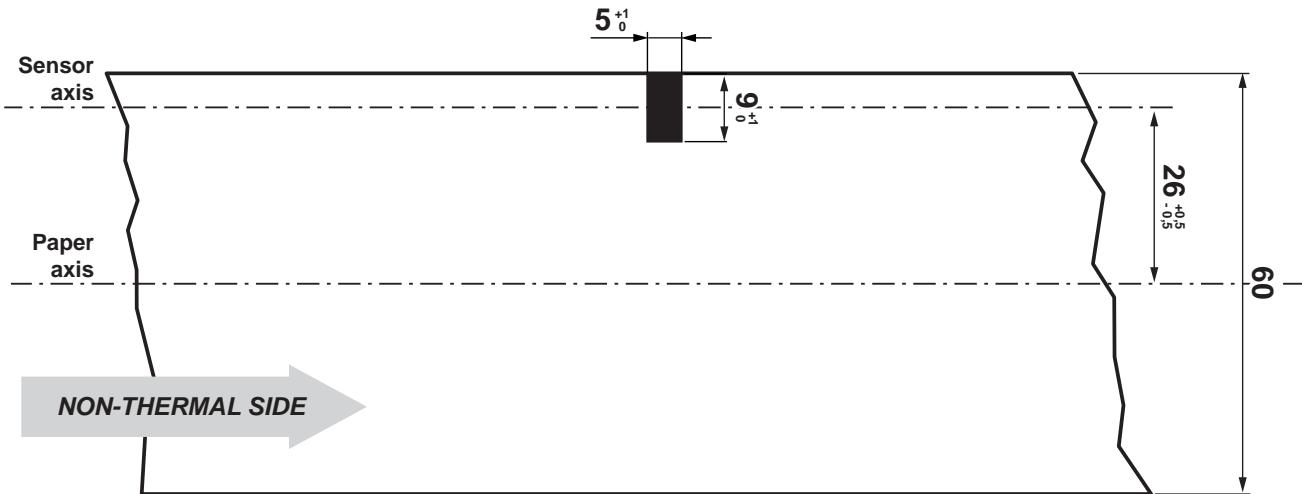
## 7. SPECIFICATIONS

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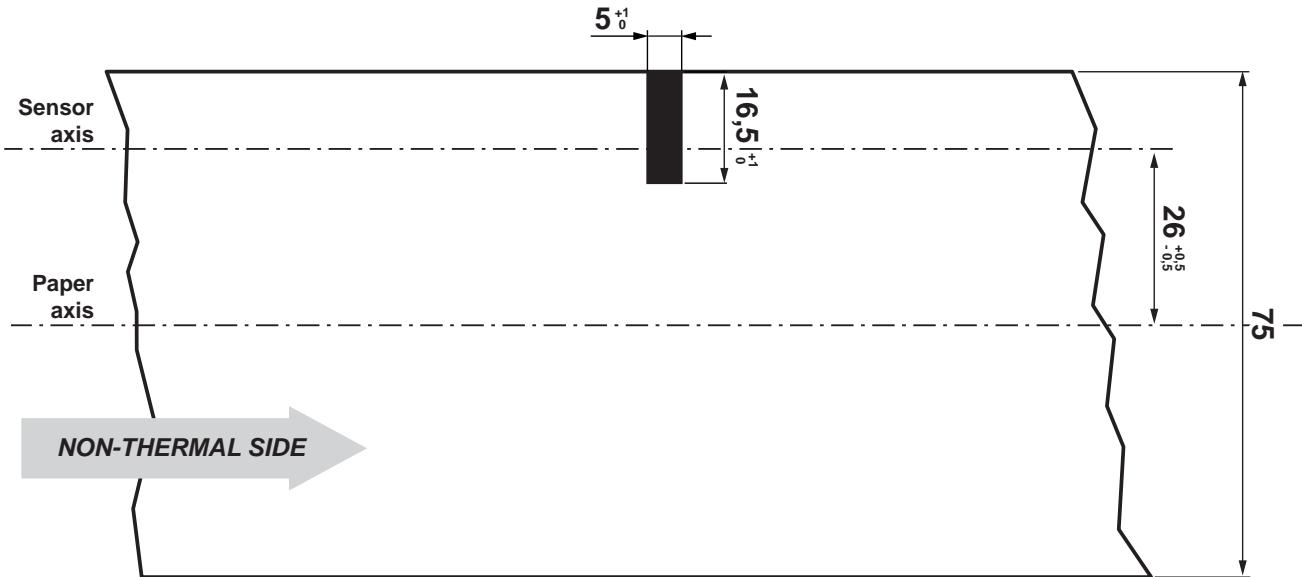
### 7.6 Paper specifications

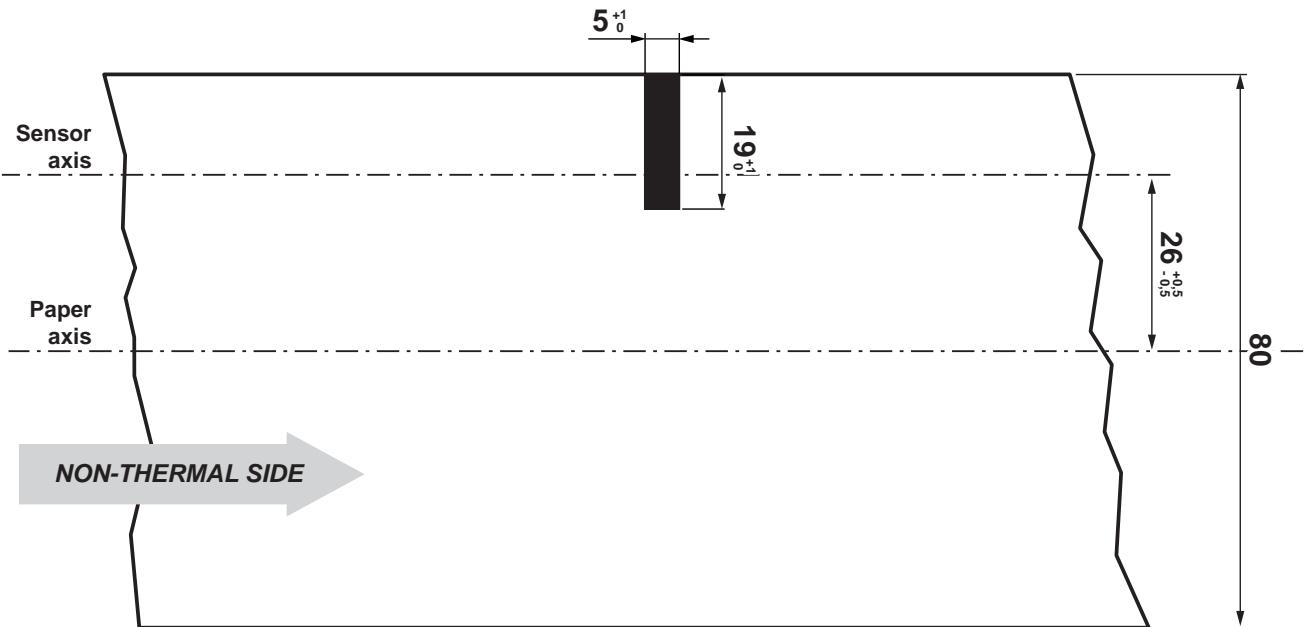
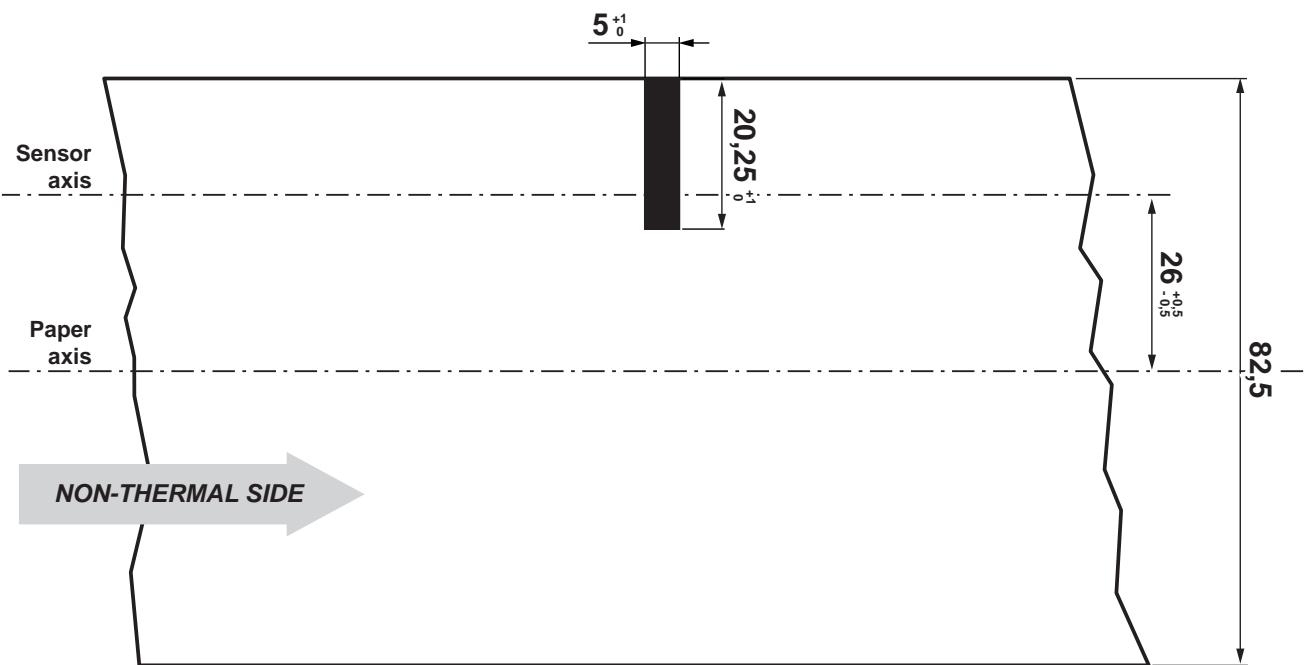
The notch must be positioned on the non-thermal side of the paper as shown in the following figures, showing some example of paper with alignment notch depending on the paper width.

#### NOTCH ON 60mm PAPER



#### NOTCH ON 75mm PAPER



NOTCH ON 80mm PAPERNOTCH ON 82,5mm PAPER

## **7. SPECIFICATIONS**

## 7.7 Western character

The printer has 3 fonts of varying width (11, 15 and 20 cpi) which may be accessed through programming or control characters.

Each of these fonts offers the following code tables: PC437, PC850, PC860, PC863, PC865, PC858.

## PC437 CODE TABLE (Usa, Standard Europe)

## **PC850 CODE TABLE (Multilingual)**

## **7. SPECIFICATIONS**

## PC860 CODE TABLE (Portuguese)

PC863 CODE TABLE (Canadian, French)

## **7. SPECIFICATIONS**

## **PC865 CODE TABLE (Nordic)**

## **PC858 CODE TABLE (Euro symbol)**

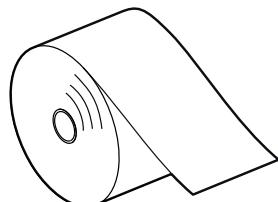
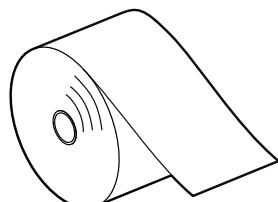
**NOTE:** To print the Euro (€) symbol, the command sequence is: \$1B, \$74, \$13, \$D5 (see Commands Manual).

## **7. SPECIFICATIONS**

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## 8 CONSUMABLES

The following table shows the list of available consumables for device:

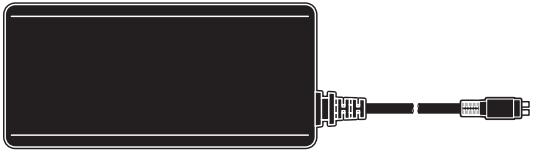
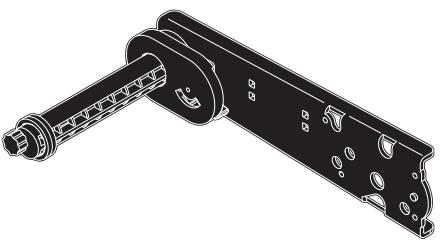
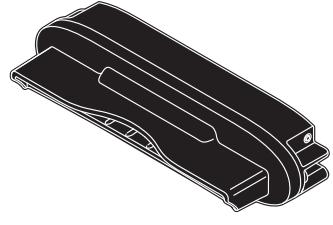
DESCRIPTION	CODE
THERMAL PAPER ROLL WITH BACK SIDE PRE-PRINTED  weight = 58g/m <sup>2</sup> width = 80mm Ø external = 48mm Ø core = 25mm	<b>67300000000395</b>  
THERMAL PAPER ROLL  weight = 58g/m <sup>2</sup> width = 80mm Ø external = 130mm Ø core = 25mm	<b>67300000000380</b>  

## **8. CONSUMABLES**

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## 9 ACCESSORIES

The available accessories for the device are listed in the following table:

DESCRIPTION	CODE
POWER SUPPLY (for technical specifications, see paragraphs 7.1 and 7.5)	<b>963GE020000003</b>
	
ADAPTER CABLE FOR POWER SUPPLY (see the paragraph 9.1)	<b>26900000000005</b>
	
PAPER ROLL HOLDER WITH NEAR PAPER END SENSOR to assemble on the left side of the device (see the paragraph 9.2)	<b>974DW010000318</b>
	
“SHUTTER” DEVICE KIT (see the paragraph 9.3)	<b>976DX010000001</b>
	

## **9. ACCESSORIES**

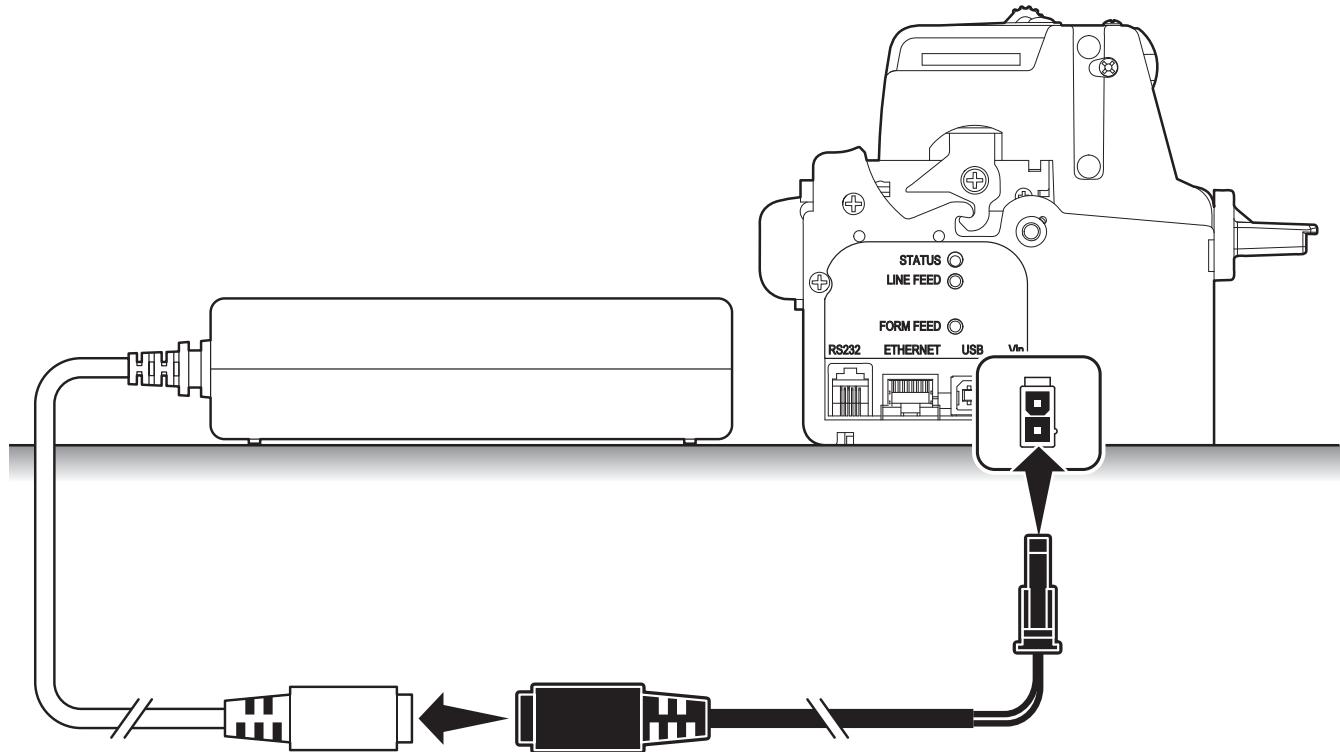
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### **9.1 Adapter cable for power supply**

For the device is available an adapter cable (cod. 26900000000005) supplied as an accessory, for connecting the printer to the external power supply unit (cod. 963GE020000003 - optional).

#### **ASSEMBLY INSTRUCTIONS**

Connect the adapter cable to the power supply unit as follows:



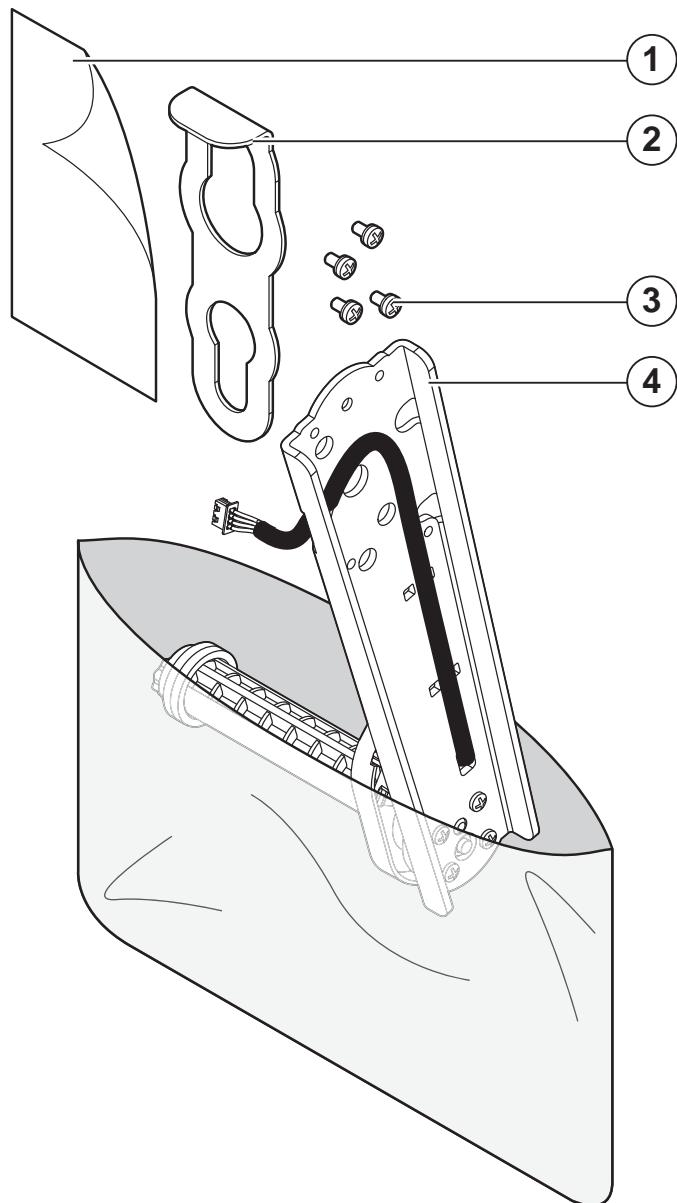
## 9.2 Paper roll holder

A paper roll holder kit (cod.974DW010000318) is available for the printer to make it possible to use larger-width rolls of paper.

The paper roll holder can be only assembled on the left side of the printer as shown in the following figures.

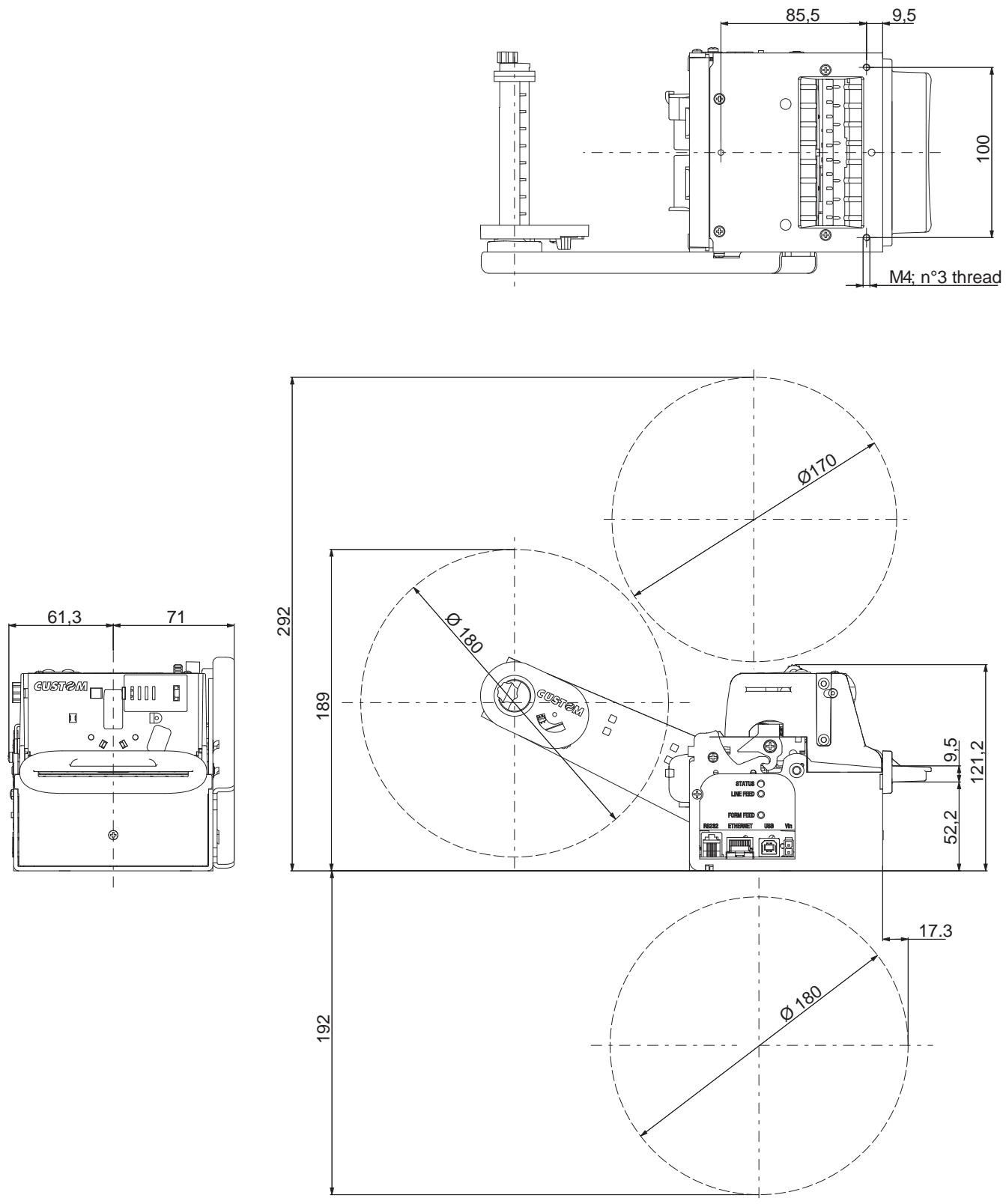
The kit includes (see figure):

1. Instruction sheet
2. Tie for roll blocking
3. No. 4 fastening screws
4. Paper holder support with near paper end sensor and regulating system for paper width.



## 9. ACCESSORIES

The following figure shows the printer dimensions with the paper roll holder assembled:

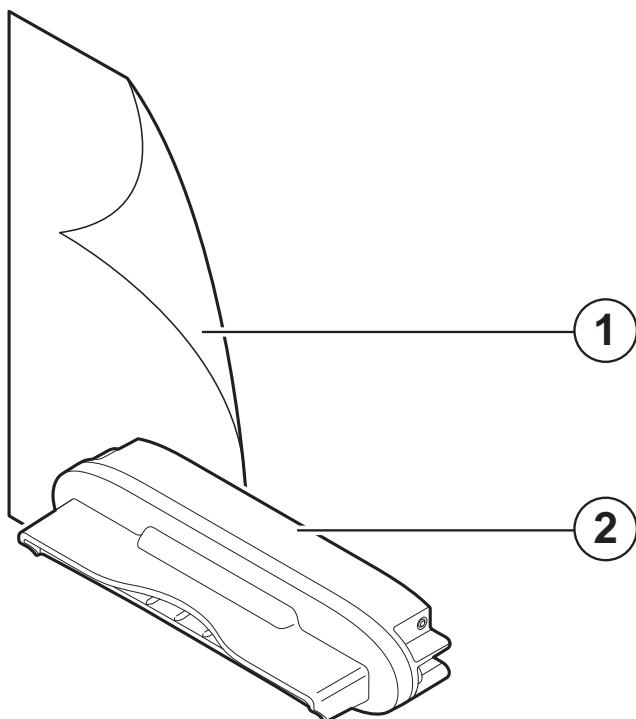


### 9.3 “Shutter” device

A “shutter” device (cod.976DX010000001) is available for the printer. This device prevents the insertion of paper or foreign objects into the outlet of the paper.

The kit includes (see figure):

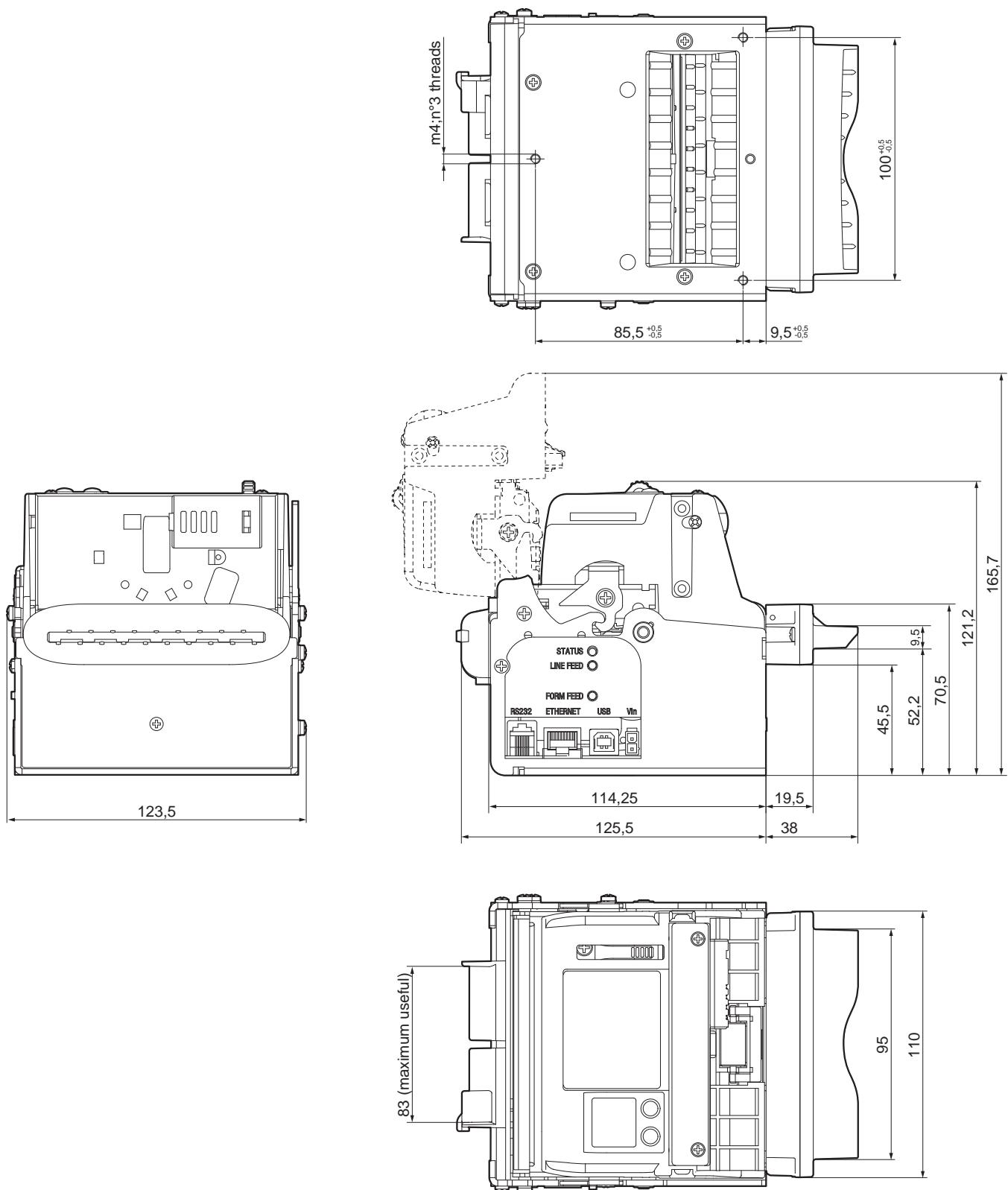
1. Instruction sheet
2. “Shutter” group



**NOTE:** To assemble the kit refer to the instruction sheet enclosed with the kit.

## 9. ACCESSORIES

The following figure shows the printer dimensions with the “shutter” device assembled:



## 10 ALIGNMENT

Device is provided with sensors for the use of alignment notch in order to handle roll of tickets with pre-printed fields and a fixed length.

The alignment sensors assembled on printer, are “reflection” sensors: this kind of sensor emits a band of light and detects the quantity of light reflected to it.

The presence of the notch is therefore detected by the amount of light that returns to the sensor, considering that the light is reflected by the white paper and absorbed by the black mark.

The following paragraphs show how to correctly set the configuration parameters of device in order to assure the alignment.

### 10.1 Enable alignment

To guarantee the alignment, it is necessary to enable the parameter “Notch Alignment” during the Setup procedure (see chapter 5).

### 10.2 Calibration

The sensor calibration occurs automatically and consists in adjusting the quantity of light emitted to match the degree of whiteness of the paper used and the degree of black of the mark printed on paper.

The device automatically performs the self-calibration during the Setup procedure only if the “Notch Alignment” parameter is set to “Enabled” value (see chapter 5).

When self-calibration starts, the device performs some paper feeds and then it prints the calibration result and the value (numeric and as a percentage) of the “*Threshold White*” parameter that indicates the power-up level of the sensor emitting side (the value ranges from 0V to 5V):

Autosetting Notch : OK  
Threshold White : 2,3V [70%]

The “Autosetting Notch” parameter indicates the result of the self-calibration procedure; OK will appear if it has been successful, NOT OK will appear if the procedure has failed.

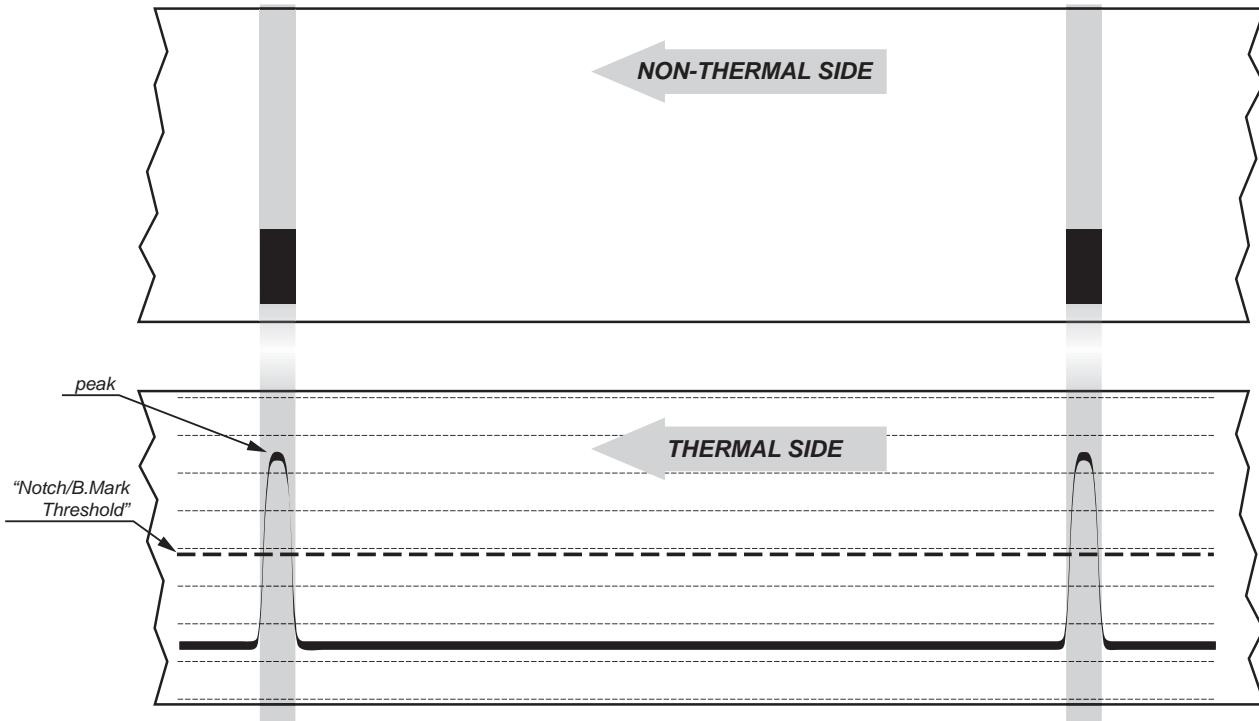
After the printing of the procedure result, the device offers the execution of the function of paper characterization “Characterize Paper” and the change of the “Notch Threshold” parameter which represents the detection threshold of the notch.

Choosing the “Yes” value for the “Characterize Paper” parameter, the device prints a graphic representation (see following figures) of the outgoing voltage of the alignment sensor (expressed as a percentage) and the “Notch Threshold” value.

This graphic representation is useful to set the most suitable value to assign to the “Notch Threshold” parameter and then to better identify the optimal threshold value which takes into account the variations of the signal and the small oscillations around zero.

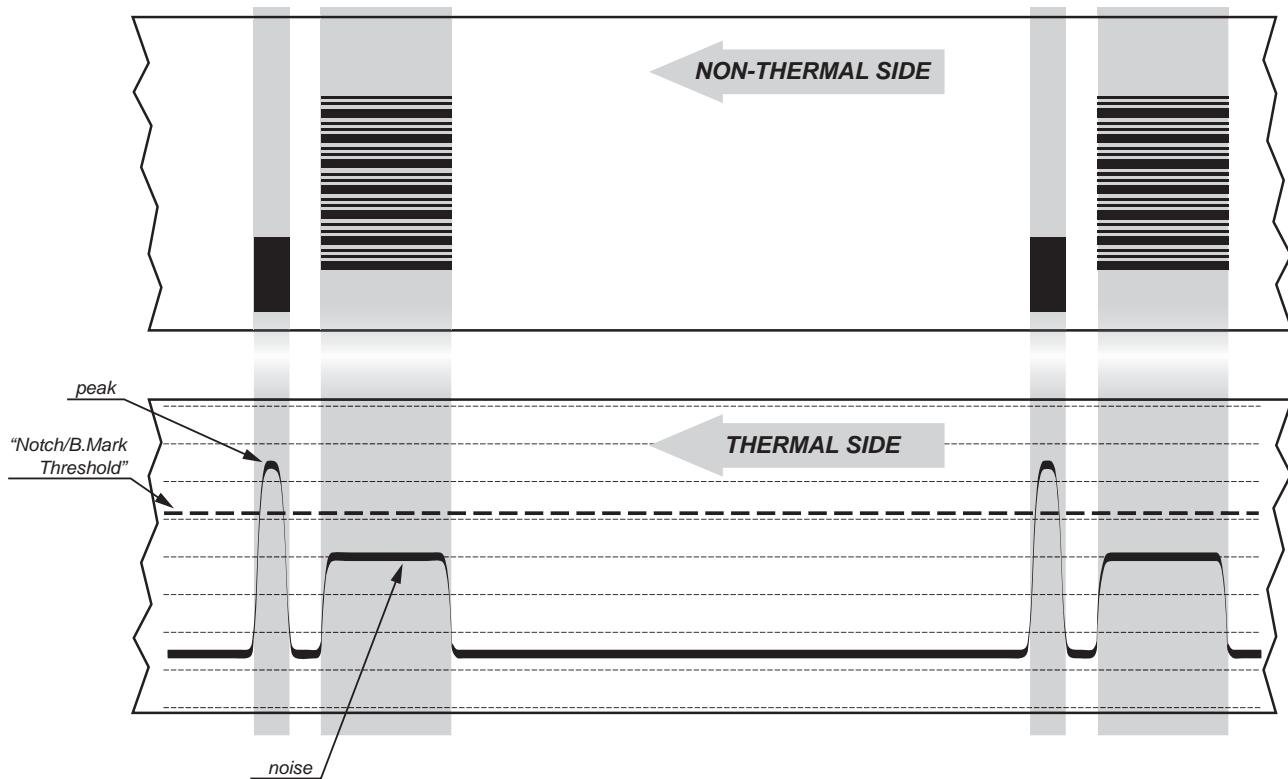
## 10. ALIGNMENT

The following figure shows an example of paper with the non-thermal paper printed with black marks: the outgoing voltage is constant while passing the white paper between two notches and presents a peak at each black mark. In this case, the optimal value for the “Notch Threshold” parameter is placed about half of the peak.



The following figure shows an example of paper with the non-thermal paper printed with black marks and other graphics (for example, a barcode): the outgoing voltage is constant while passing the white paper between two notches, presents a peak at each black mark and presents some “noise” at each barcode.

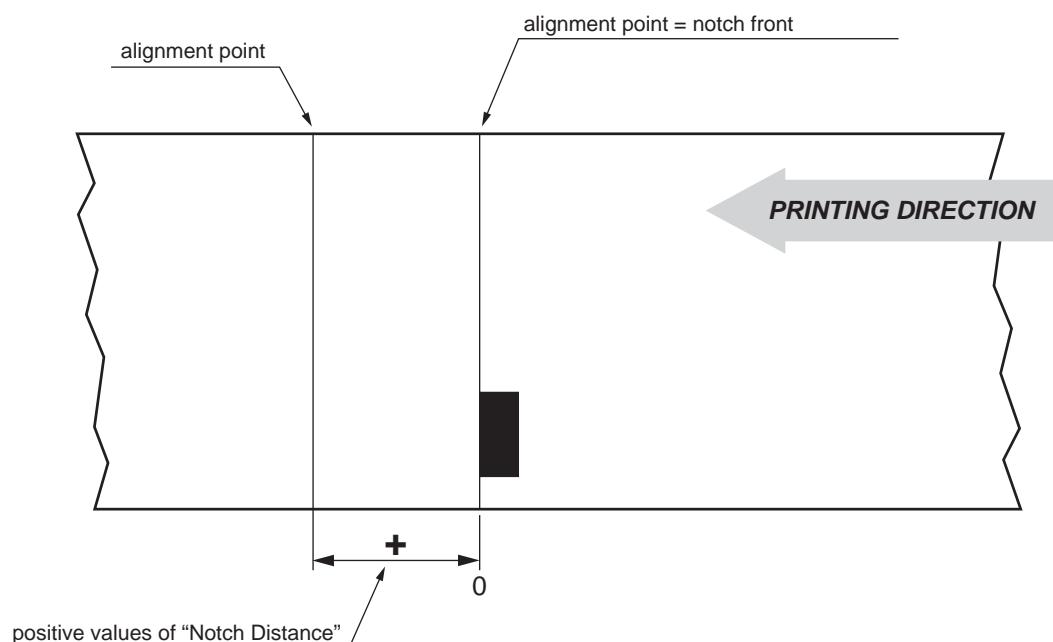
In this case, the optimal value for the “Notch Threshold” parameter is located about halfway between the peak value and the maximum value of the “noise”.



If the maximum value of “noise” read by the sensor is very close to the peak value, it might be difficult to place the value of the “Notch/B.Mark Threshold” at an intermediate point. In these cases, it is mandatory that the portion of paper between the point of printing end and the front notch is completely white (no graphics). In this way, the only next graphic detected by the sensor for alignment after the printing end will be the notch.

### 10.3 Alignment parameters

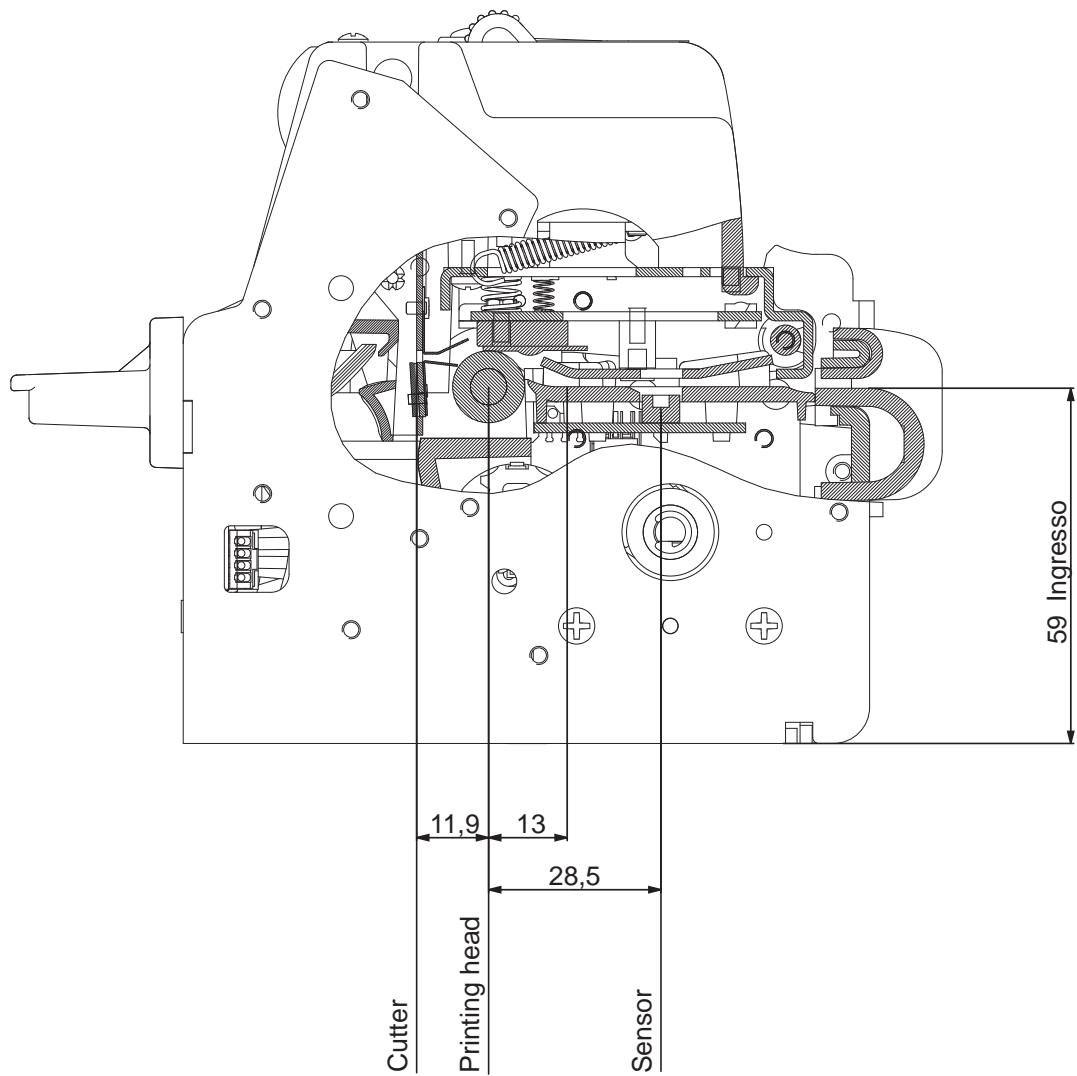
The “alignment point” is defined as the position inside the ticket to use for the notch alignment. The distance between the notch edge and the alignment point is defined as “Notch Distance”. If the “Notch Distance” value is set to 0, the alignment point is set at the beginning of the notch.



The value of “Notch Distance” varies from 0mm minimum and 32mm maximum (this value is fix according to the mechanical distance between notch sensor and printing head)

## 10. ALIGNMENT

The following figure shows a section of the device with the distances between the alignment sensors, the printing head and the cutter (cutting line):



### ESC/POS™ EMULATION

To define the alignment point you need to set the printer parameters that compose the numerical value of the "Notch Distance" parameter.

For example, to set a notch distance of 15 mm between the notch and the alignment point, the parameters must be set on the following values:

<i>Notch Distance [mm x 10]</i>	: 1
<i>Notch Distance [mm x 1]</i>	: 5

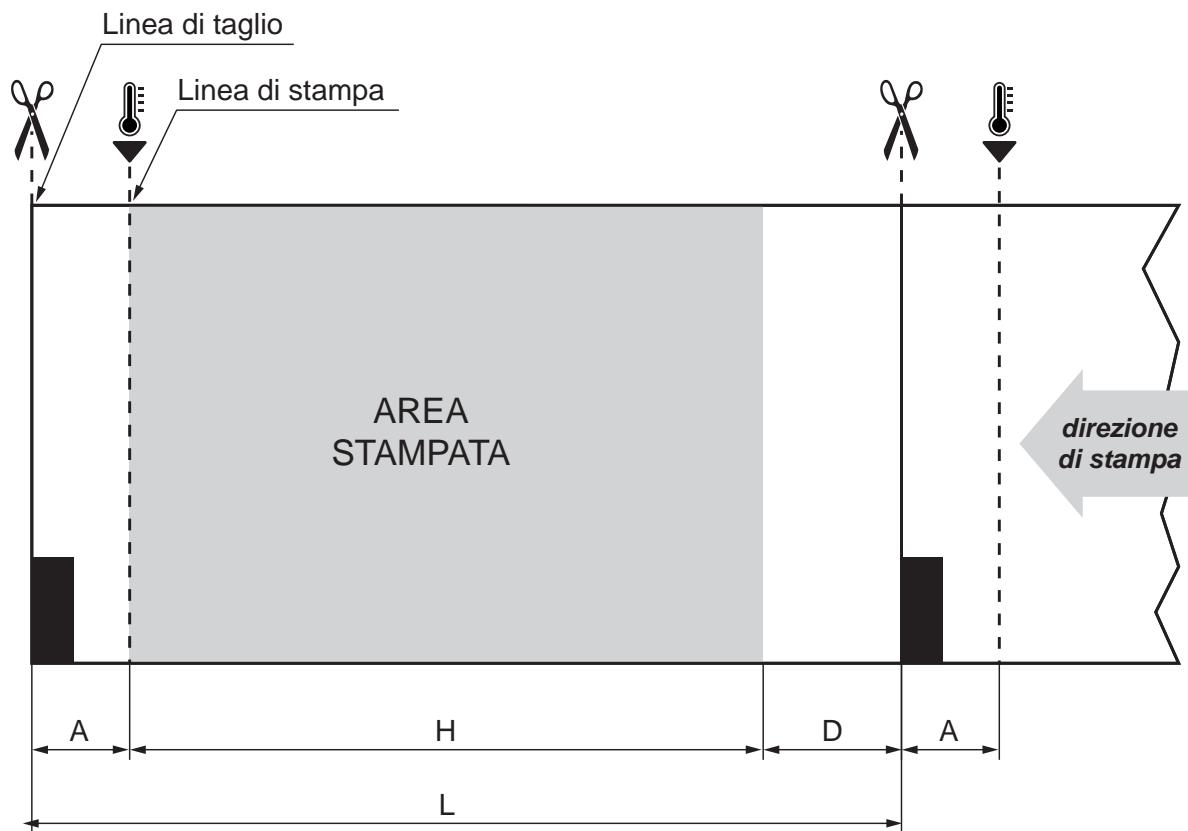
The "Notch Distance" parameter, may be modified as follows:

- during the Setup procedure of the device (see chapter 5)
- by using the \$1D \$E7 command (for more details, refer to the Commands Manual)
- by driver.

## 10.4 Printing area

It is important to well calibrate the height of the printing area of ticket according to the inter-notch distance, in order to print ticket containing only one notch and to not overlay printing to a notch (that will make it useless for the next alignment).

The following figure shows an example of tickets with “Notch Distance” set to 0:



- A “Non-printable area” = “Distance between cutter/printing head” = 11,9 mm (fixed distance)
- H Distance between the first and the last print line, called “Height of the printing area”.
- L Distance between an edge of the notch and the next one, called “Inter-notch distance”.
- D Automatic feed for alignment at the next notch.

To use all the notches on the paper, you must comply with the following equation:

$$H + A \leq L$$

The height of the printing area (H) can be increased to make no progress on alignment ( $D = 0$ ) but no further.

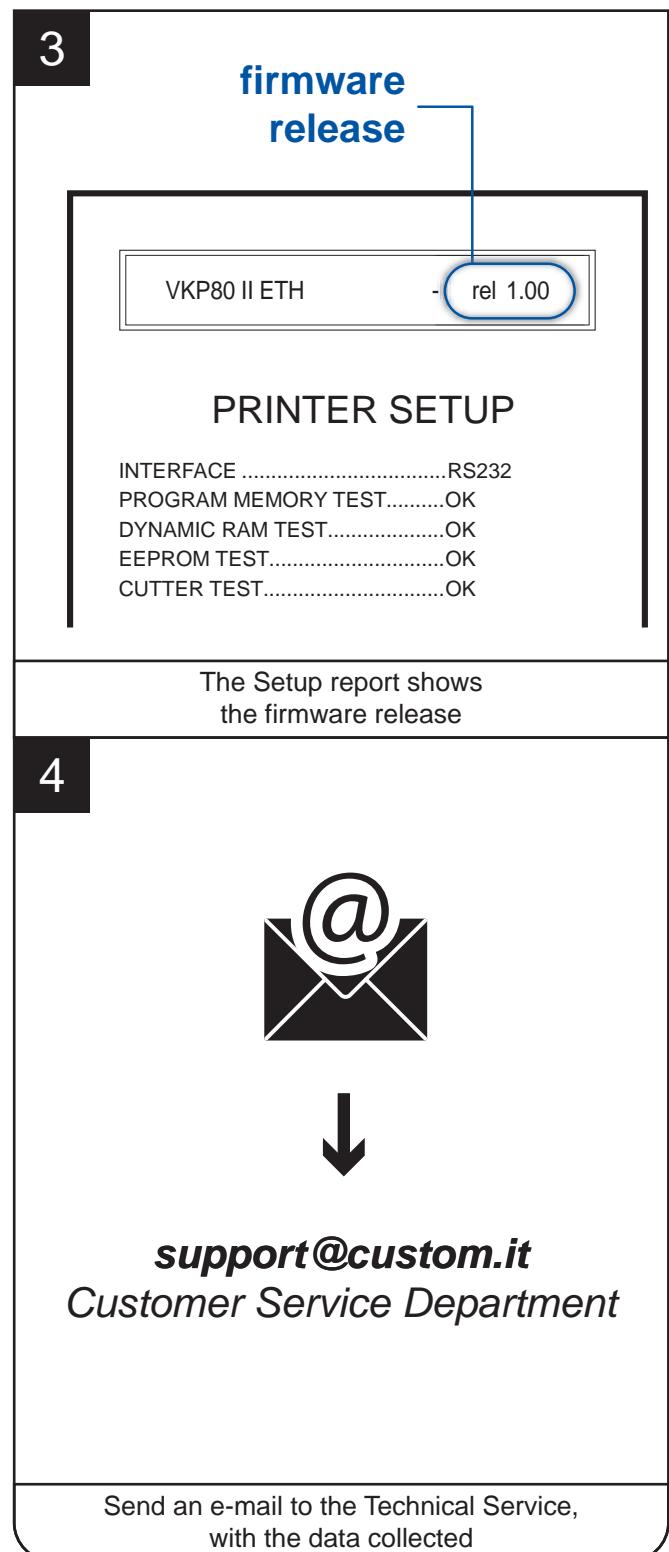
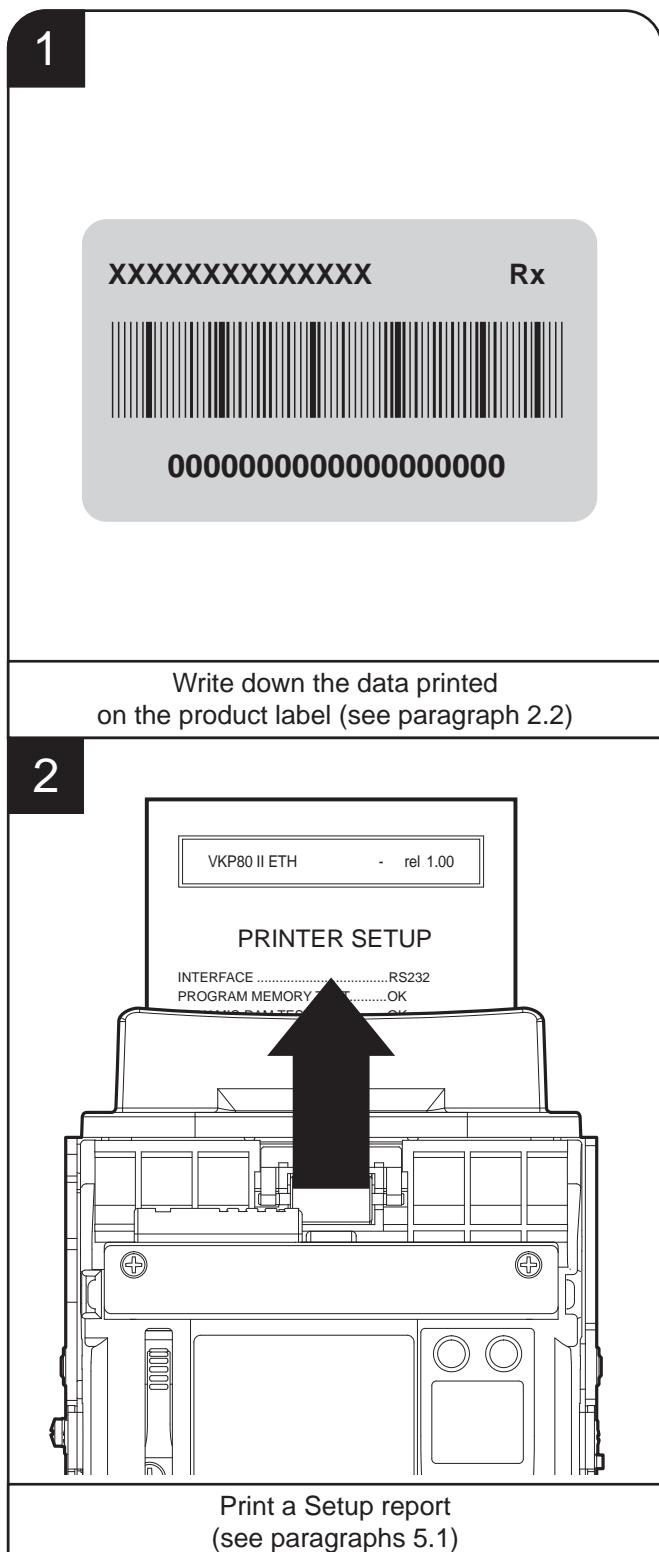


## 11 TECHNICAL SERVICE

In case of failure, contact the Technical Service by sending an e-mail to support@custom.it detailing:

1. Product code
2. Serial number
3. Hardware release
4. Firmware release

To get the necessary data, proceed as follows:





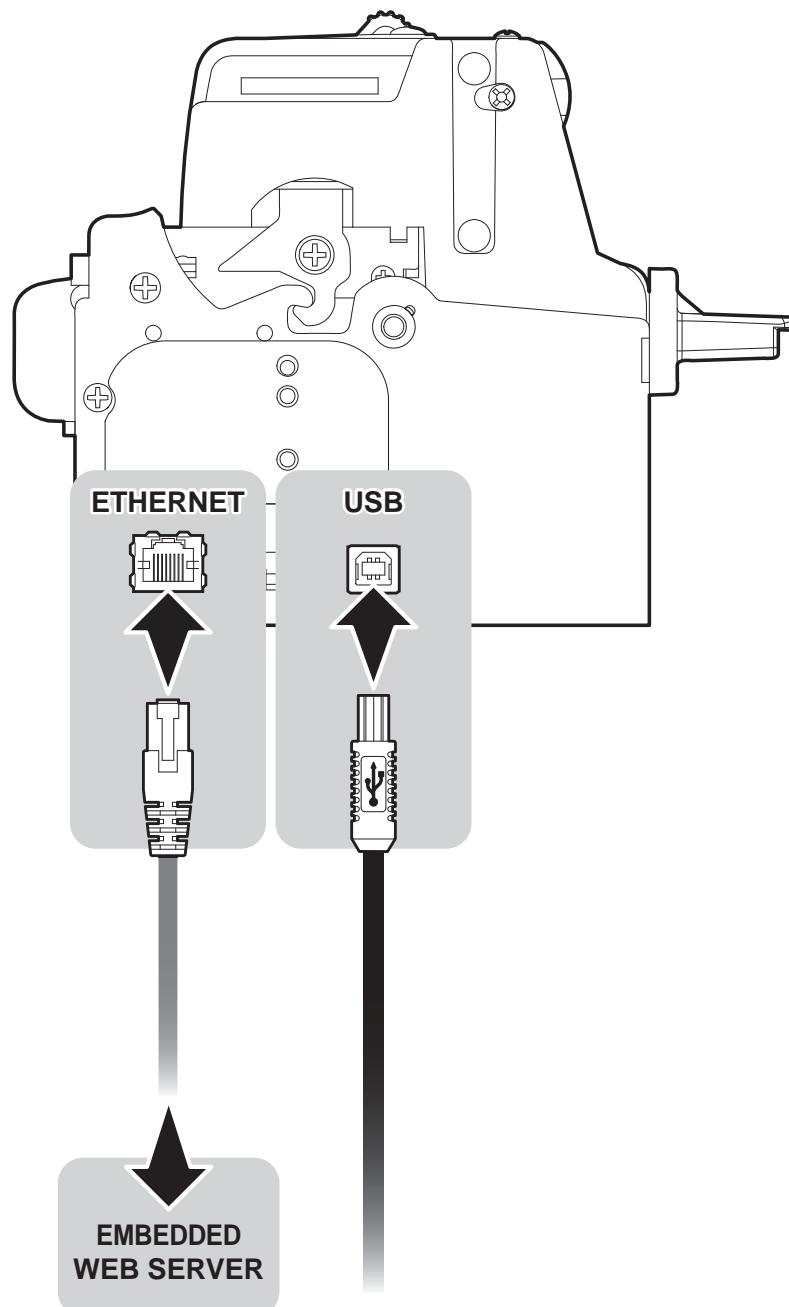
## 12 ADVANCED FUNCTIONS

### 12.1 File sharing

The printer can be connected to a Personal Computer through two types of connections (see par.3.3):

1. with USB cable
2. with Ethernet cable.

In case of Ethernet connection, it is possible to manage drivers, fonts and logos of the printer and configure the operating parameters by entering the Embedded Web Server.



### 12.2 Embedded Web Server

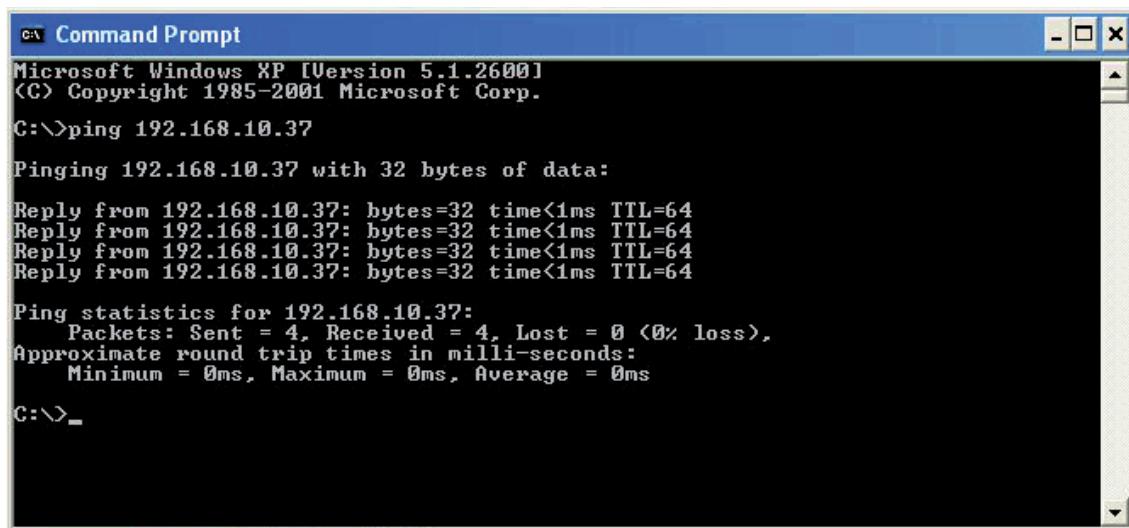
Printers are equipped with an Embedded Web Server that allows to execute some operations on printers, through a clear web interface, including:

- monitoring the printer status;
- setting operating parameters;
- configuring network settings;
- managing the logos;
- configuring the email service to make diagnostics and maintenance operations easier;
- download printing drivers.

Before entering in the Embedded Web Server, check that:

- the printer is connected and turned on;
- the printer has a network connection based on the IP protocol;
- the following ports are opened (if a Firewall is present on computer): 9100 (or differently set up). 15000, 15001, 15002;
- have a Web browser on the computer;
- the printer is connected to the network and its IP address and its Subnet Mask are set up in a correct way. To check the setting of these parameters, open a new terminal window and type “ping” on the command bar followed by the IP address of the printer. The picture shows an example of a positive result after the “ping” command. Otherwise, if connection isn’t possible, to its IP address, a failure notice will appear.

Example: ping 192. 168. 10. 37



```
c:\ Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\>ping 192.168.10.37

Pinging 192.168.10.37 with 32 bytes of data:
Reply from 192.168.10.37: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.10.37:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>_
```

## 12.3 Embedded Web Server: access

To enter the Embedded Web Server, type the IP address assigned to the printer into Web browser. For example, if IP address of the printer is 192.168.10.37, type in the Web browser:

<http://192.168.10.37>

On the screen will appear the internal default page that corresponds to the section “Device Info” The home page is divided into 6 areas whose functions are described below:

### 1. SECTIONS:

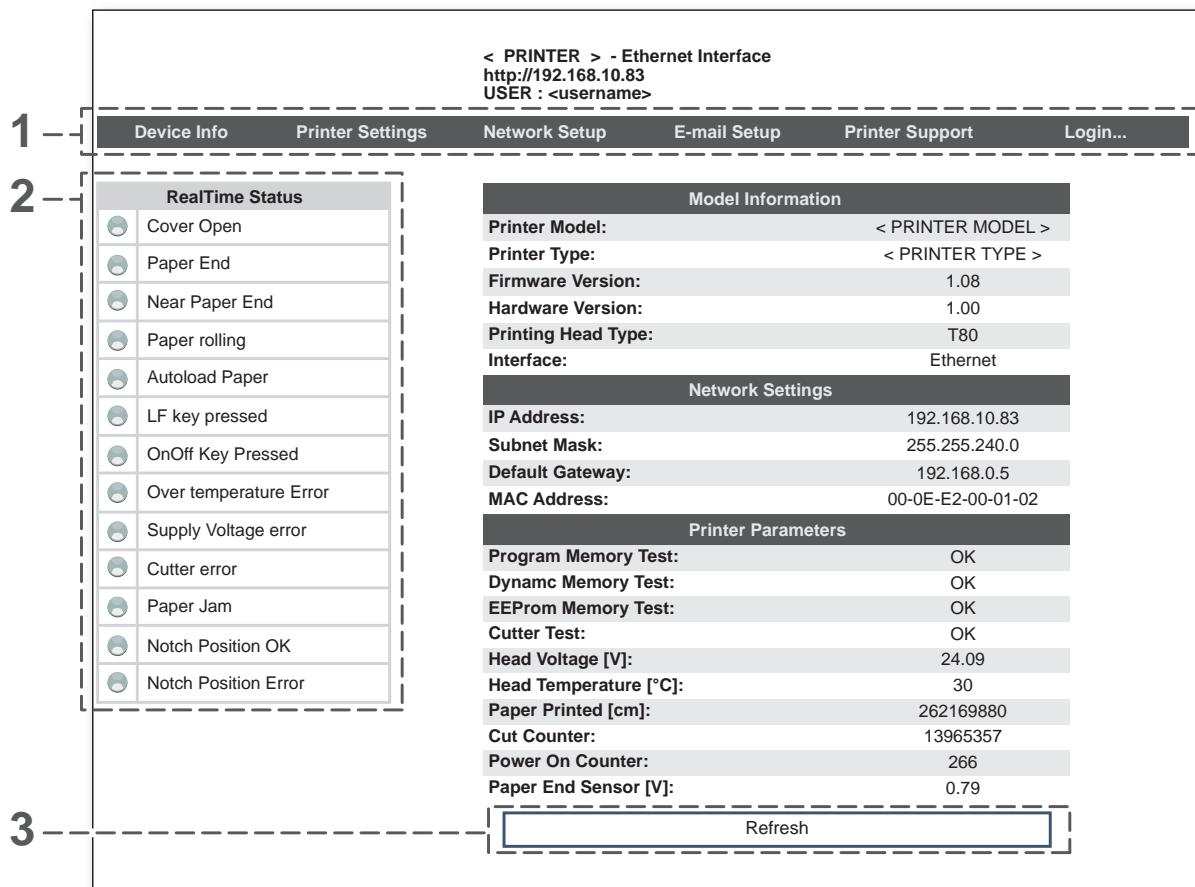
The web server has six sections listed within each web page. These sections are: Device Info, Printer Settings, Network Setup, E-mail Setup, Printer Support and Login.

### 2. TOOLS

The tools available within the chosen section are displayed as buttons (the tool for the “Device Info” section is a forced refresh of the operating parameters).

### 3. REAL TIME STATUS

Report a list of operating parameters controlled and monitored in real time (with a regular refresh of 15sec).



#### NOTE:

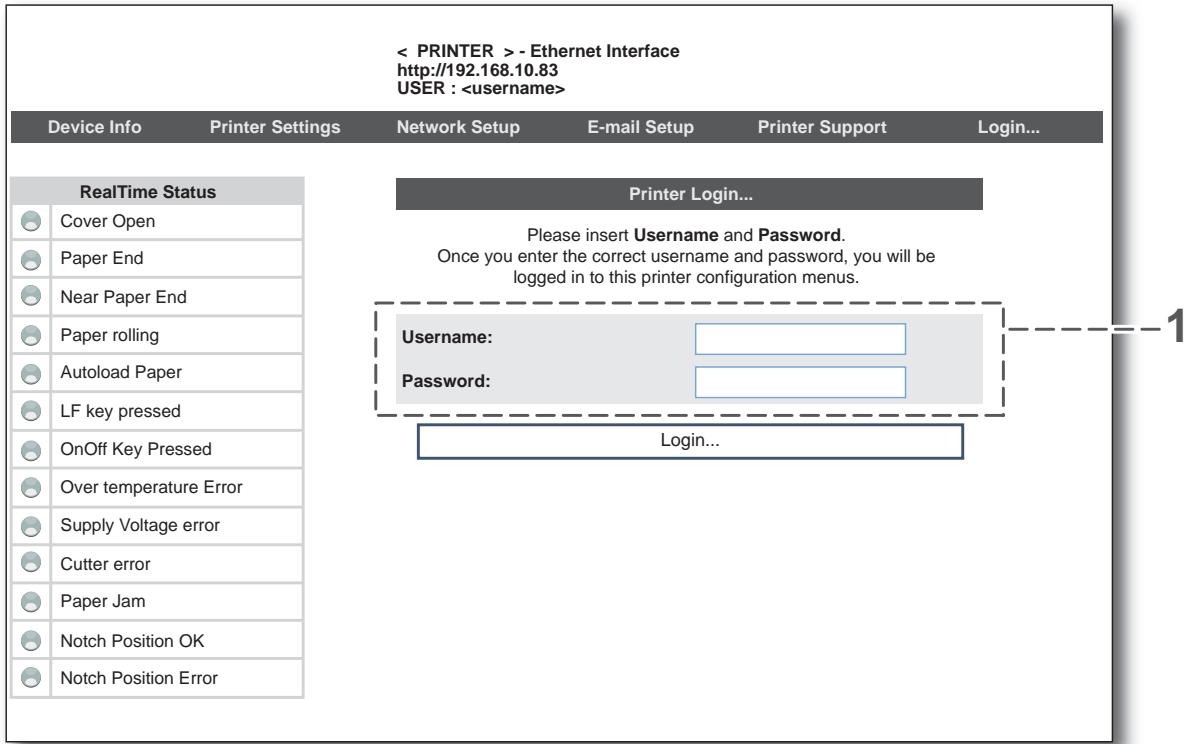
To know the IP address of the printer, print the Set-up report of the printer (see chapter 5).

## 12. ADVANCED FUNCTIONS

### 12.4 Embedded Web Server: login

To enter some sections and some configuration services, it is required the identification of the user and password. To make registration and to obtain the access to the restricted areas, when it is required insert the user name and the password as indicated in the following table:

User Name	Custom
Password	AlwaysOn



#### NOTE:

Respect capital and small letters as indicated in table.







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