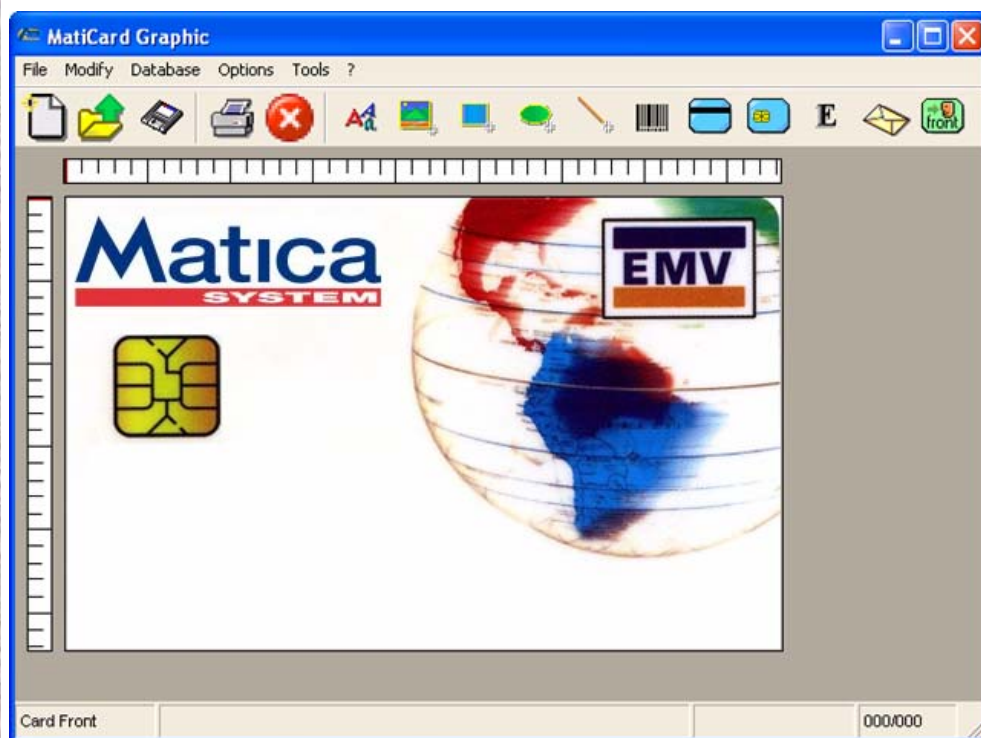


Maticard

# MATICARD CARD DESIGN SOFTWARE



**Matica**  
**SYSTEM**

**USER MANUAL**  
Revision 3.113



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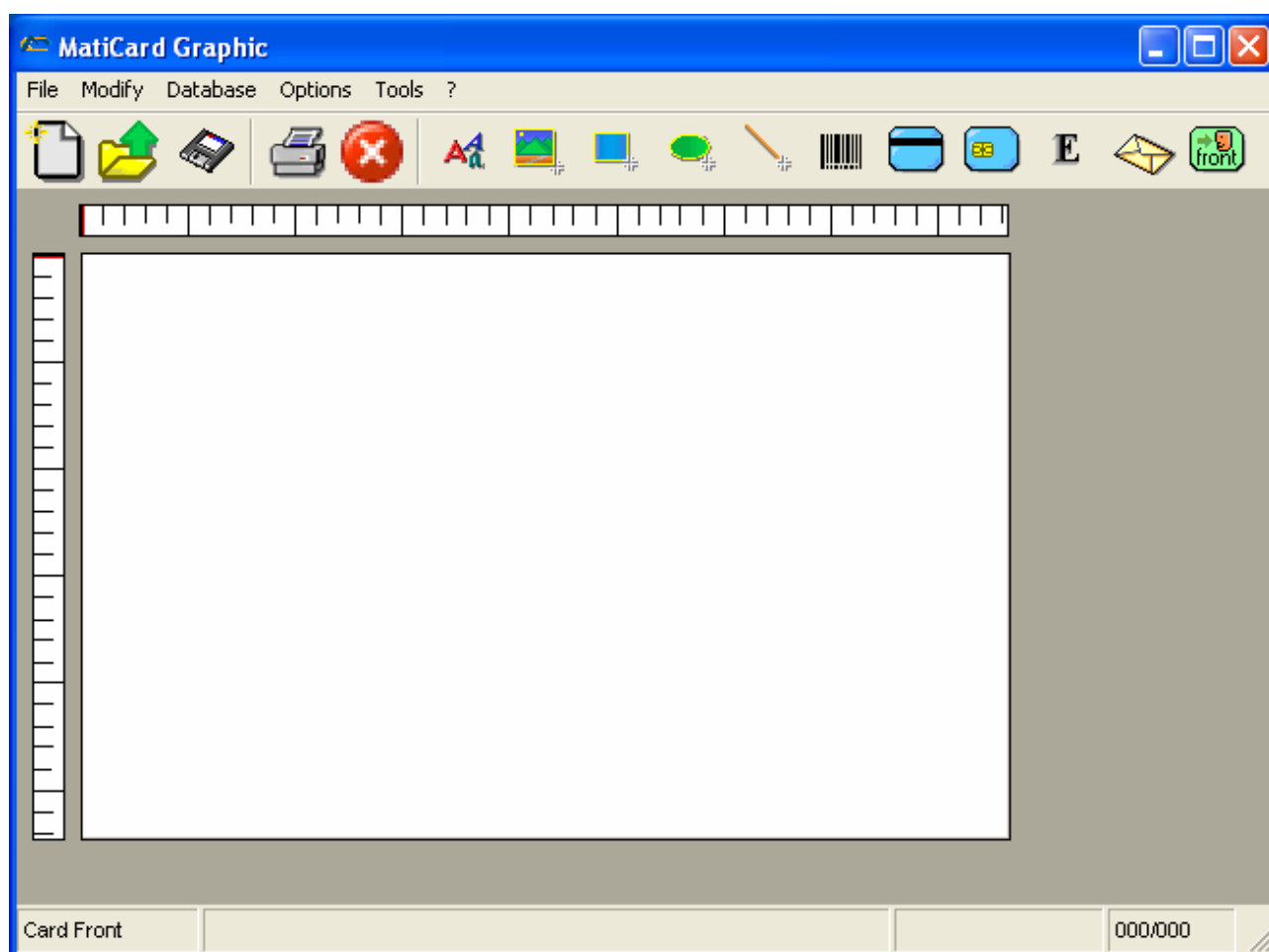
## Chapter 1 – MatiCard default functions

MatiCard is the software used by all Matica machines to perform the card's personalization.

Refer to the Matica machine Installation Guides to install and configure MatiCard.

The screenshots showed into this manual version are taken from MatiCard version 3.113.

Run MatiCard to display the main program window.




**Fig. 1.1: MatiCard main window.**

The functions and objects present into the window depend on the chosen configuration.

In this manual we will consider all the functions and objects that MatiCard could manage regarding any possible configuration.

## Paragraph 1.1 - Creating a job

To create a new MatCard job, click the **New** button  on the tool bar or select the **New** command from the **File** menu.

A new job front side of will be displayed.

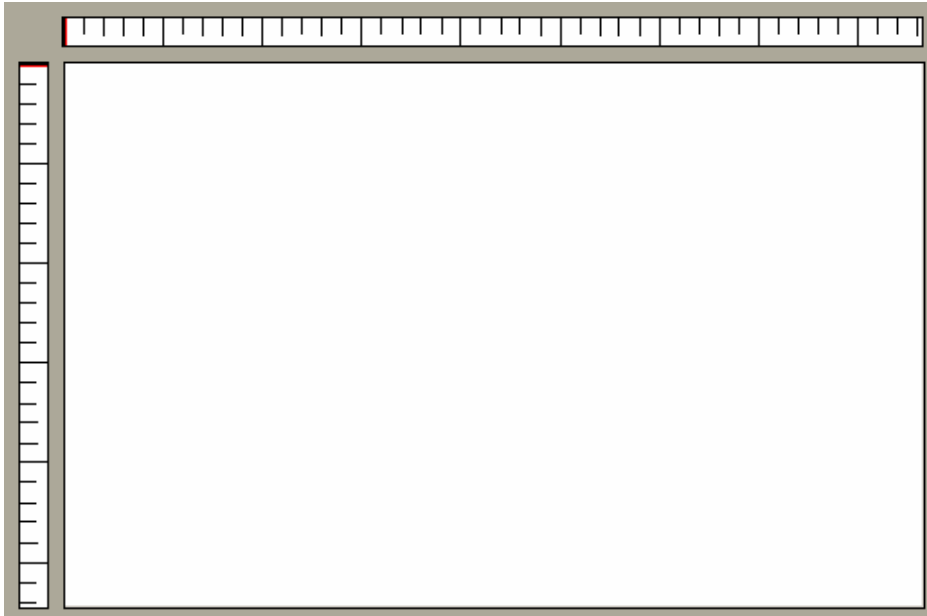


Fig. 1.2: New job.

To show the magstripe and/or the chip on the card, right-click on the job and select the desired option from the **MagStripe/Chip** command or check mark the related Card Options (see Paragraph 5.10).

To hide the magstripe and/or the chip on the card, right-click on the job and select the desired option from the MagStripe/Chip command or remove the check mark from the related Card Options (see Paragraph 5.10).

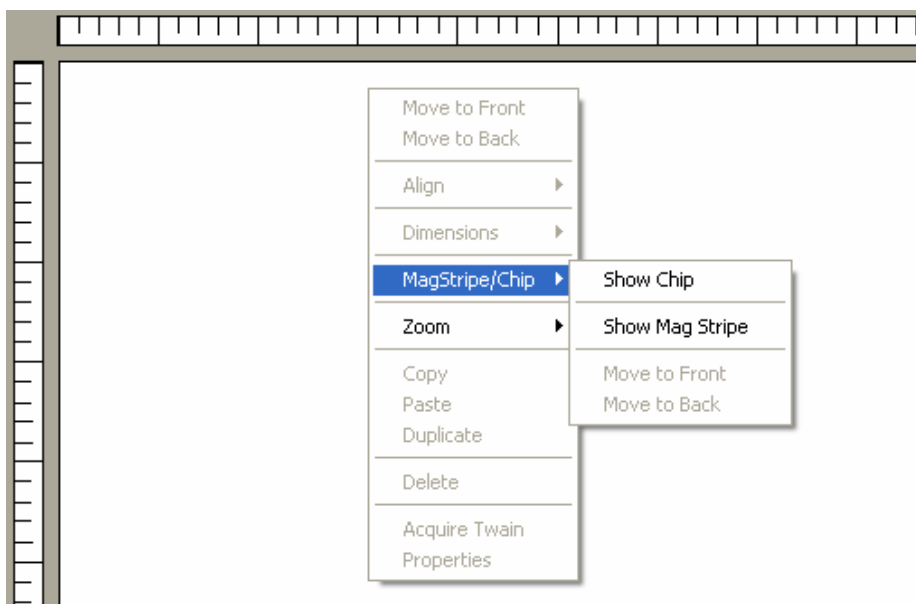
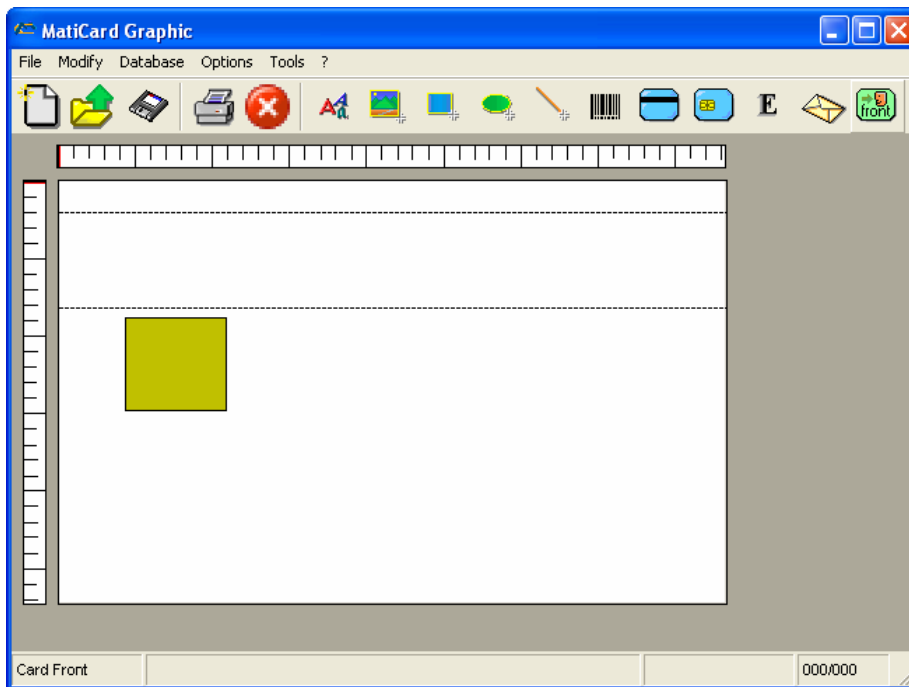



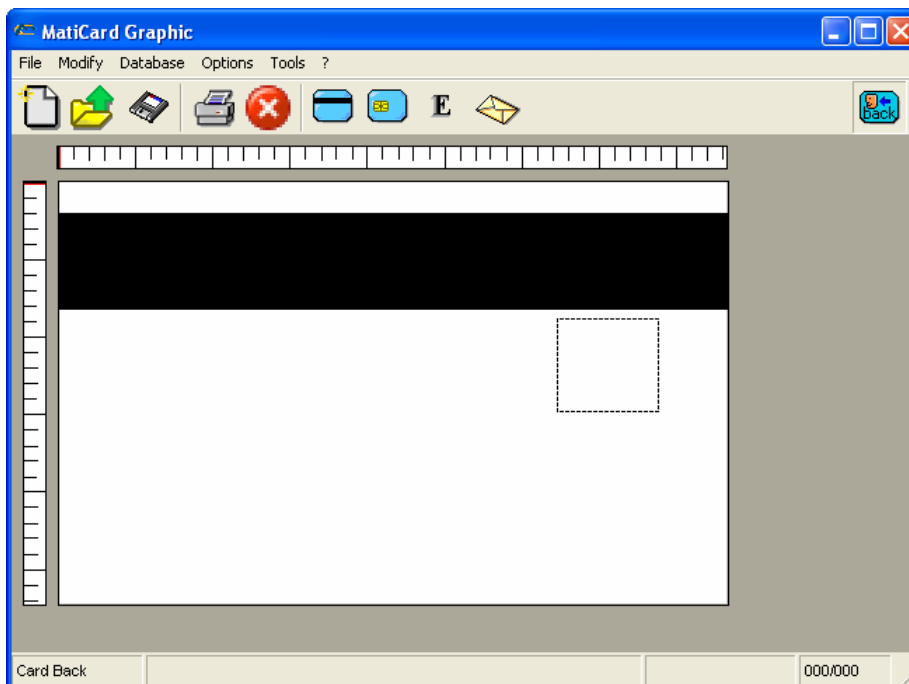
Fig. 1.3: Show magstripe/chip.

To display the rear side of the card, click the **Front/Back** button  on the tool bar.



**Fig. 1.4: Front side of the card.**

To return to the front side of the card, click again the **Front/Back** button  on the tool bar




**Fig. 1.5: Rear side of the card.**

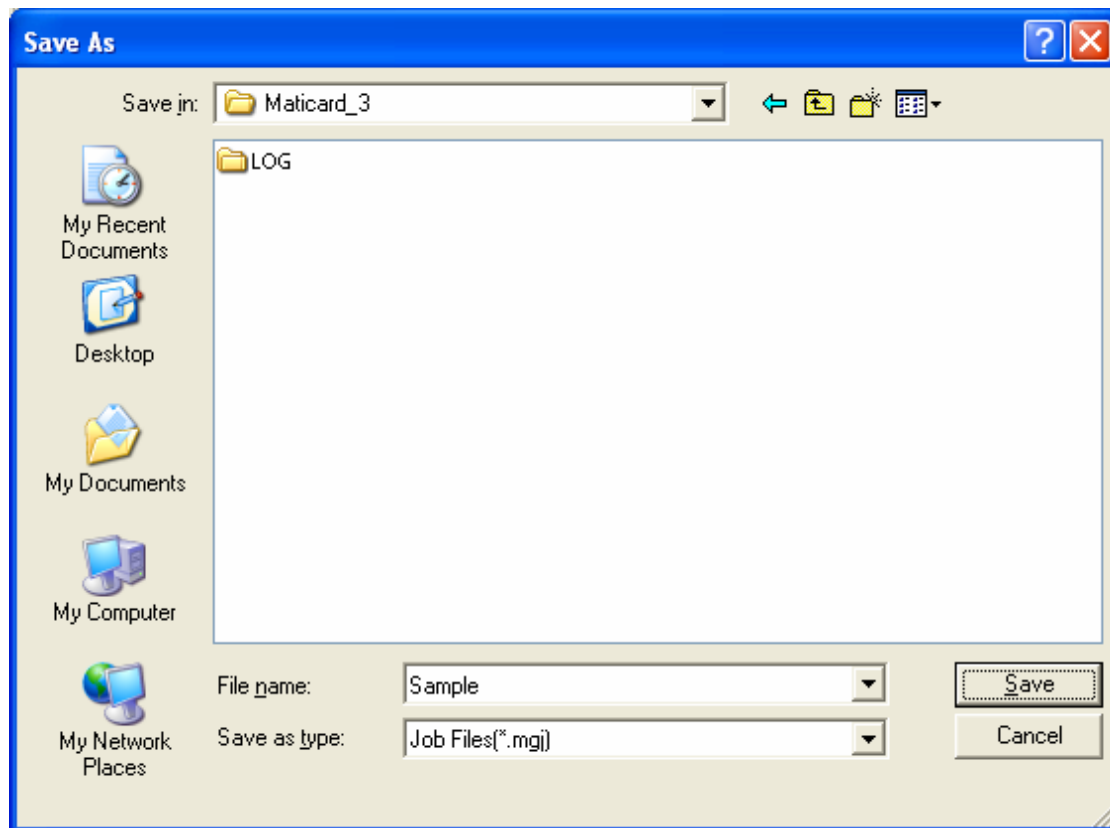
The tool bar shows only the buttons available for the card side displayed.



## Paragraph 1.2 - Saving a job

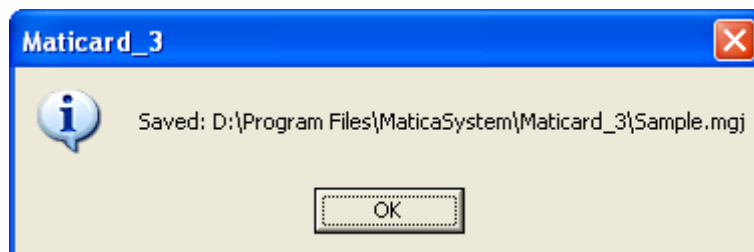
To save a MatCard job, click the **Save** button  on the tool bar or select the **Save Job** command from the **File** menu.

In this way the **Save As** window will be displayed.



**Fig. 1.6: Save As window.**

Choose the file name and the directory, then click on the **Save** button. The file extension will be **mgj** (MatCard Graphic Job). A saving confirmation window will be displayed.



**Fig. 1.7: Confirmation window.**

If the current job was already saved, clicking the Save button just saves the updated job with the same name in the same directory.

If an already saved job has to be saved with another name, select the **Save Job as** command from the **File** menu and choose the new name and directory in the Save As window, then click on the Save button.



## Paragraph 1.3 - Opening or closing a job

To open a MatCard job, click the **Open** button  on the tool bar or select the **Open Job** command from the **File** menu.

In this way the **Open** window will be displayed.

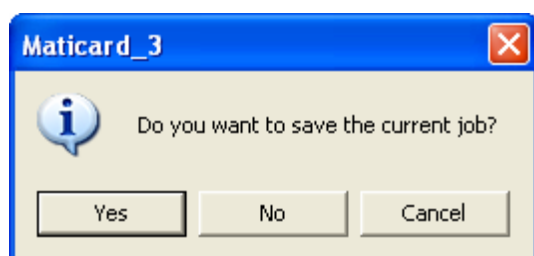


**Fig. 1.8 Open window.**

Choose the job to open with extension **mgj**, then click on the **Open** button. The name and the path of the job will be displayed in the title bar.

To close a MatCard job, select the **Exit** command from the **File** menu.


If the current job has been updated and not saved, MatCard will display a window asking to save the job; selecting the **Yes** button, the Save As window described in Paragraph 1.2 will be displayed.



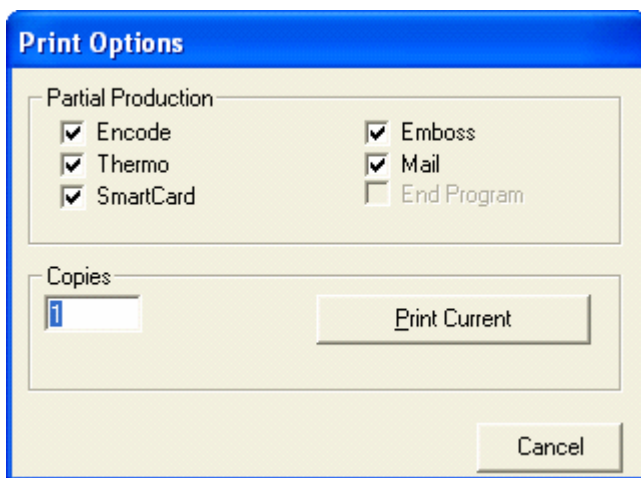
**Fig. 1.9: Saving option.**

## Paragraph 1.4 - Printing a job

### Print data not from a Database

To print a MatiCard job with fixed data, click the **Print** button  on the tool bar or select the **Print** command from the **File** menu.

If the **Set Printer on Direct Printing** advanced parameter is check marked, the **Print Options** window will be displayed; otherwise clicking the Print button the machine will print directly the job (see Paragraph 5.2).



**Fig. 1.10: Print Options window.**

To choose which modules have to personalize the card and which not, check mark the related option into the **Partial Production** box.

The available functions are: Encode (see Paragraph 2.8), Emboss (see Paragraph 2.1), Thermo (see from Paragraph 2.2 to Paragraph 2.7), Mail (see Paragraph 3.2), SmartCard (see Paragraph 2.9), and End Program.

The **End Program** option enables to the Log on card end function (see Paragraph 5.7).

The **Laser** option is not available.

If an option is not available, the related function is not requested by the job.

Set the production quantity into the **Copies** box.

To start printing, click on the **Print Current** button and the **Print Status** window will be displayed.

The Print Status window reports the production statistics.  
When the print is complete, the Print Status window will become green.

The Print Status window has a blue title bar and a light yellow background. It displays the following information:

Printing ..			
Printing: 1/1			
Production statistics:			
Cards OK:	0	Cards Rejected:	0
Machine Errors:	0	Card Errors:	0
Warnings:	0	Card Chip Errors:	0
Readback Errors:	0	Papers Reject:	0

At the bottom, there are two buttons: "Terminate" (orange) and "Stop" (red).

Fig. 1.11: Printing Status.

The Print Status window has a blue title bar and a green background. It displays the following information:

Print complete			
Printing: 1/1			
Production statistics:			
Cards OK:	1	Cards Rejected:	0
Machine Errors:	0	Card Errors:	0
Warnings:	0	Card Chip Errors:	0
Readback Errors:	0	Papers Reject:	0

At the bottom, there is one button: "OK" (white with a black border).

Fig. 1.12: Print complete.

Clicking the **Terminate** button, the machine finishes the production of the card already sent in the buffer, then stops and the Print Status window will become yellow. This button is available only if the machine is not in error status. Clicking the **Stop** button, the machine immediately stops the card production and the Print Status window will become red.

The Print Status window has a blue title bar and a yellow background. It displays the following information:

Print terminated			
Printing: 1/1			
Production statistics:			
Cards OK:	0	Cards Rejected:	0
Machine Errors:	0	Card Errors:	0
Warnings:	0	Card Chip Errors:	0
Readback Errors:	0	Papers Reject:	0

At the bottom, there is one button: "OK" (white with a black border).

Fig. 1.13: Print terminated.


The Print Status window has a blue title bar and a red background. It displays the following information:

Print aborted			
Printing: 1/1			
Production statistics:			
Cards OK:	0	Cards Rejected:	0
Machine Errors:	0	Card Errors:	0
Warnings:	0	Card Chip Errors:	0
Readback Errors:	0	Papers Reject:	0

At the bottom, there is one button: "OK" (white with a black border).

Fig. 1.14: Print aborted.

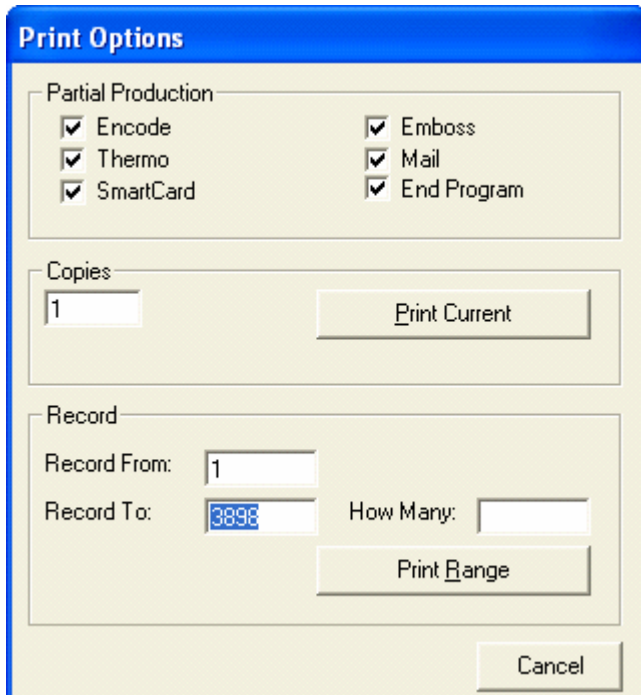
## Print data from a Database

To print a variable data job, click the **Print** button  on the tool bar or select the **Print** command from the **File** menu.

If the **Set Printer on Direct Printing** advanced parameter is check marked, the **Print Options** window will be displayed; otherwise with the Print button the machine will print directly the current record job (see Paragraph 5.2).

Into the Print Options window, to print a records range digit the record number from which the printing begins into the **Record From** box, and the record number to which the printing finishes into the **Record To** box.

To set the number of records to print, starting from the one inserted into the Record From box, digit the related value into the **How Many** box.



The **Print Options** dialog box is shown with a blue title bar. It contains three main sections:   
1. **Partial Production**: A group box containing six checked checkboxes: **Encode**, **Thermo**, **SmartCard**, **Emboss**, **Mail**, and **End Program**.   
2. **Copies**: A group box containing a text input field with the value '1' and a **Print Current** button.   
3. **Record**: A group box containing three text input fields: **Record From:** with '1', **Record To:** with '3898', and **How Many:** which is empty. Below these fields is a **Print Range** button.   
At the bottom right of the dialog is a **Cancel** button.


**Fig. 1.15: Printing a variable data job.**

The other options are the same as for the fixed data printing.

When all the options are inserted, click on the **Print Current** button to print only the displayed record job or click on the **Print Range** button to print all the specified records range.

The Print Status windows are the same as for the fixed data printing.

## Paragraph 1.5 - Resetting the machine

In order to reset the machine, click the **Reset** button  on the toolbar or select the **Machine reset** option of the **Tech functions** command from the **Tools** menu. In this way the **Machine Reset** window will be displayed.

To **Stop** the communication between MatiCard and the machine, click on the related button; the **Terminate** button is available but doesn't perform any operation for the reset.

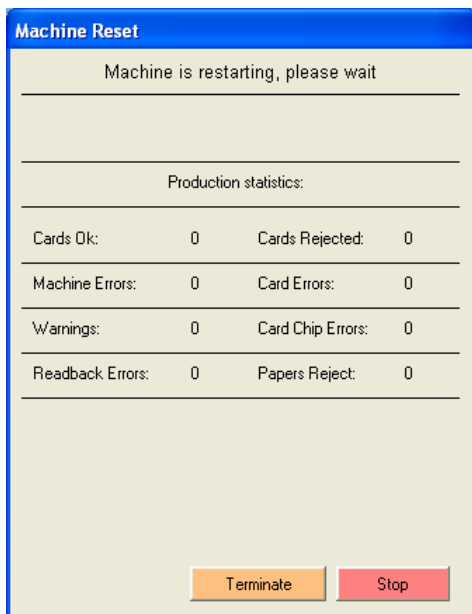


Fig. 1.16: Machine Reset.

If the reset is completed the window will become green; if an error is displayed, remove the error condition and click the **Continue** button.

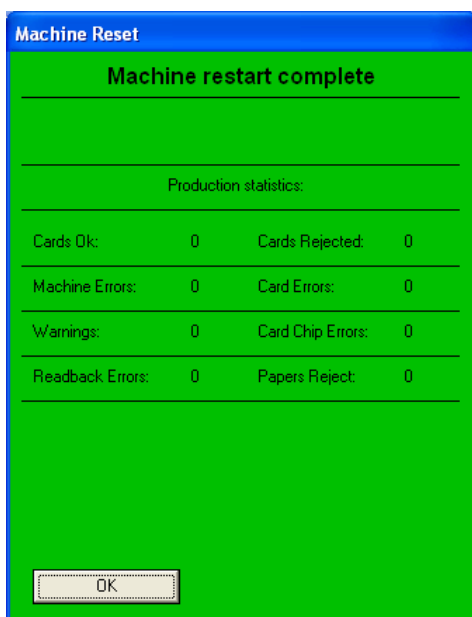


Fig. 1.17: Restart complete.

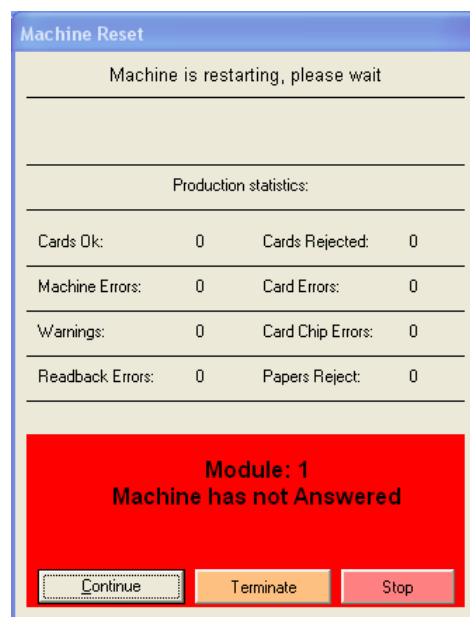
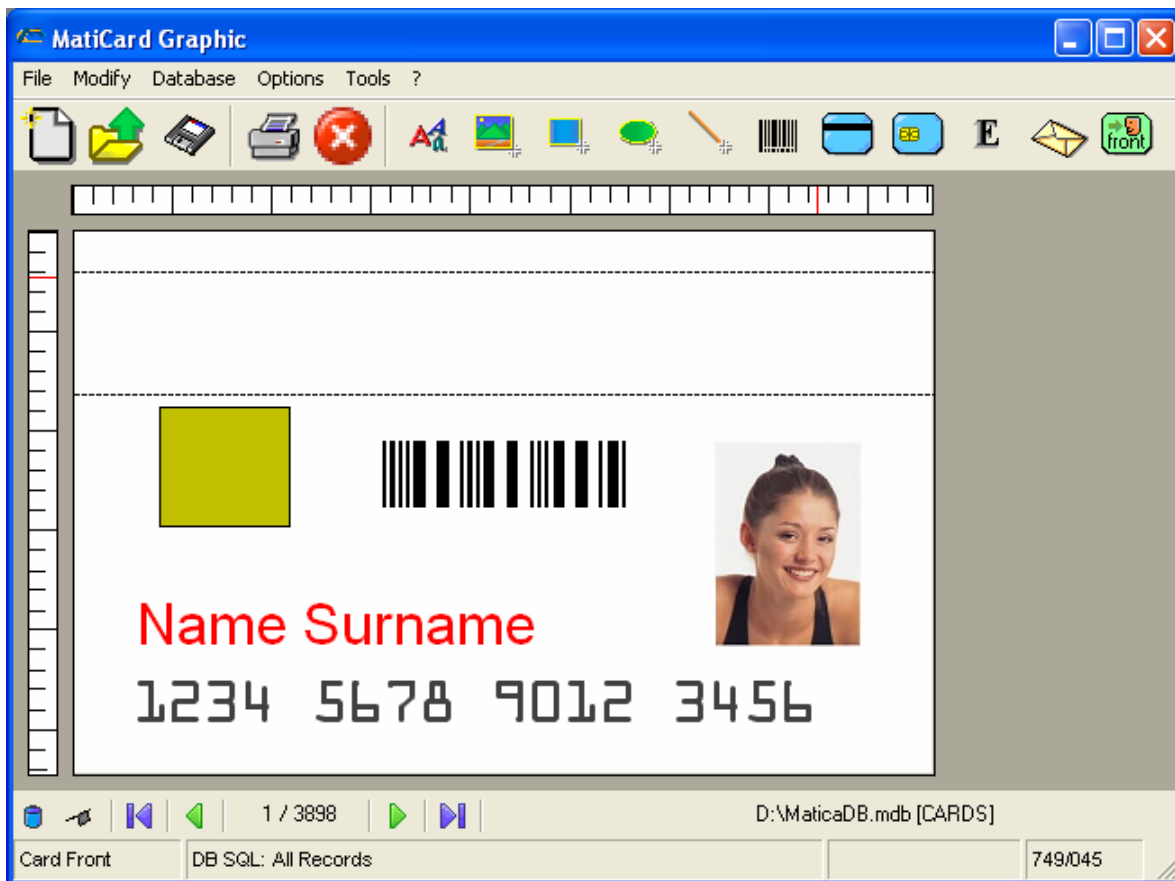


Fig. 1.18: Restart error window.

## Chapter 2 – Job personalization

MatiCard can personalize a job in order to produce cards with the inserted personalization and can also operate connected to a database (see Chapter 4); this function allows to combine a large amount of variable data with a specific job. In this way series of cards can be produced automatically, with the possibility of repeating the process without reinserting the data.



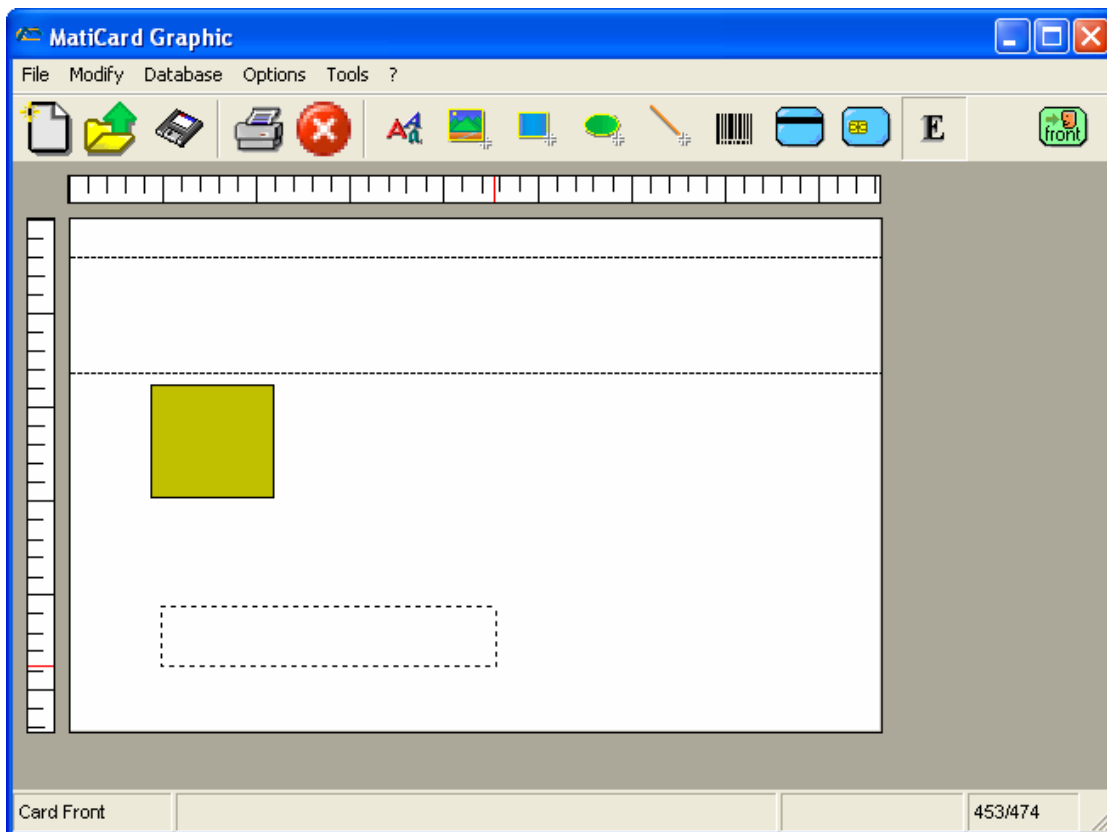
**Fig. 2.1: Job personalization.**

These are the MatCard main personalization:

- Inserting a text to emboss.
- Inserting a text to print.
- Inserting a barcode.
- Inserting an image.
- Inserting a rectangle.
- Inserting an oval.
- Inserting a line.
- Encoding magnetic tracks.
- Chip personalization.
- Inserting an overlay (see Paragraph 7.1).

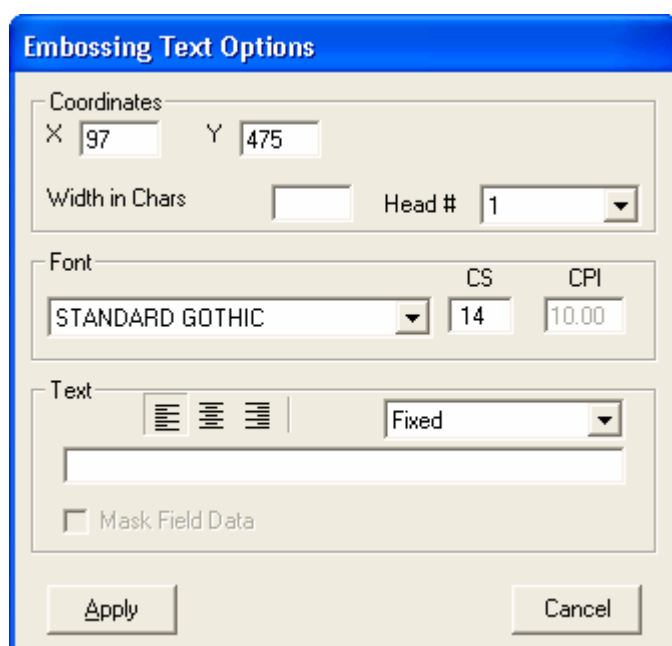
## Paragraph 2.1 – Inserting a text to emboss

To insert a text for the Embosser module, click the **Emboss Text** button on the tool bar and draw with the mouse the area where to edit the text.

**E**

**Fig. 2.2: Draw Emboss text editing zone.**

The **Embossing Text Options** window will be displayed.



**Fig. 2.3: Embossing Text Options window.**

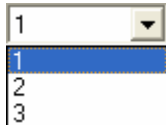


To adjust the position of the text, digit the **X** and **Y Coordinates** values into the related boxes; the axis origins is on the upper left corner of the card, while the coordinates point is the lower left corner of the editing area.

The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

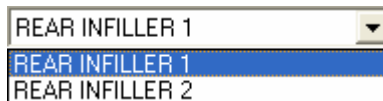
The editing area could also be moved by dragging it with the mouse.

If the machine has more than one Embosser module, select which module had to emboss the text in the combo box named **Head #**.

A dropdown menu with a small arrow icon on the right. The menu is open, showing a list of numbers: 1, 2, and 3. The number 1 is highlighted in blue.

Choose the desired **Font** in the related combo box.

This box shows only the fonts available for the current side of the card; so, depending if the card side is front or rear, the font displayed will be different.

A dropdown menu with a small arrow icon on the right. The menu is open, showing a list of fonts: STANDARD GOTHIC, OCR 7B, INFILLER 1, and INFILLER 2. The font STANDARD GOTHIC is highlighted in blue.A dropdown menu with a small arrow icon on the right. The menu is open, showing a list of fonts: REAR INFILLER 1, REAR INFILLER 1, and REAR INFILLER 2. The font REAR INFILLER 1 is highlighted in blue.

To set the space between two characters, digit the value in the **CS** box.

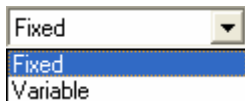
The **CPI** (characters per inch) value will be automatically calculated.

These values are measured in steps.

To align the text into the editing area click on the alignment buttons .

If the alignment is to the right or in the center, set in the **Width in Chars** box how many characters will be present into the editing area.

In the combo box next to the alignment buttons, select if the text is fixed or variable.

A dropdown menu with a small arrow icon on the right. The menu is open, showing a list of text types: Fixed and Variable. The text type Fixed is highlighted in blue.

If the text is fixed, write the **Text** to emboss in the related box and click on the **Apply** button.

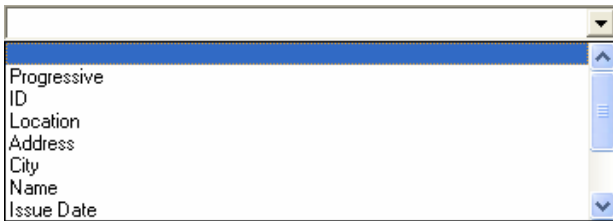
In this way the job will display the text inserted.

SAMPLE EMBOSSED TEXT

To emboss variable data text, connect the job to a database as shown in Paragraph 4.2; then click the Emboss Text button on the tool bar, draw the editing area and select the **Variable** option into the combo box near the Text box.



In this way the Text box becomes a combo box where to select the field containing the data to emboss.



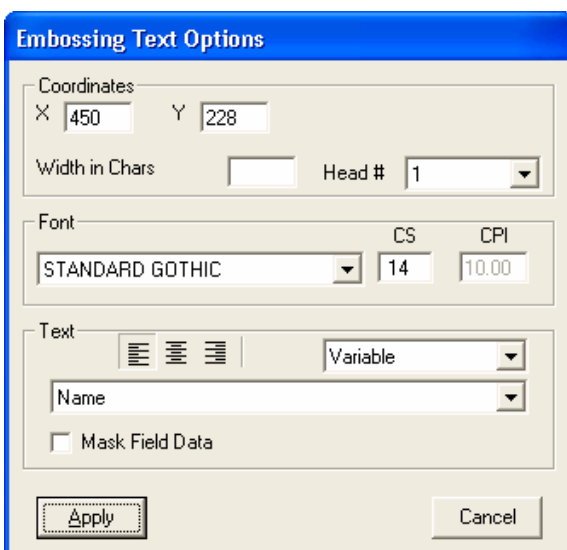
Together with the connected table fields, into the Text combo box there are also two default fields named \$DATE and \$TIME; these fields are present even with no database connection. To insert the current date and time on the job, select the related field and it will be automatically updated.

To combine fixed or variable data, use the Special Fields function (see Paragraph 4.8).

To display in the layout only the first and the last digit of the data to emboss, showing the other ones as asterisks, check mark the **Mask Field Data** option.


The other options are the same as for the fixed data.

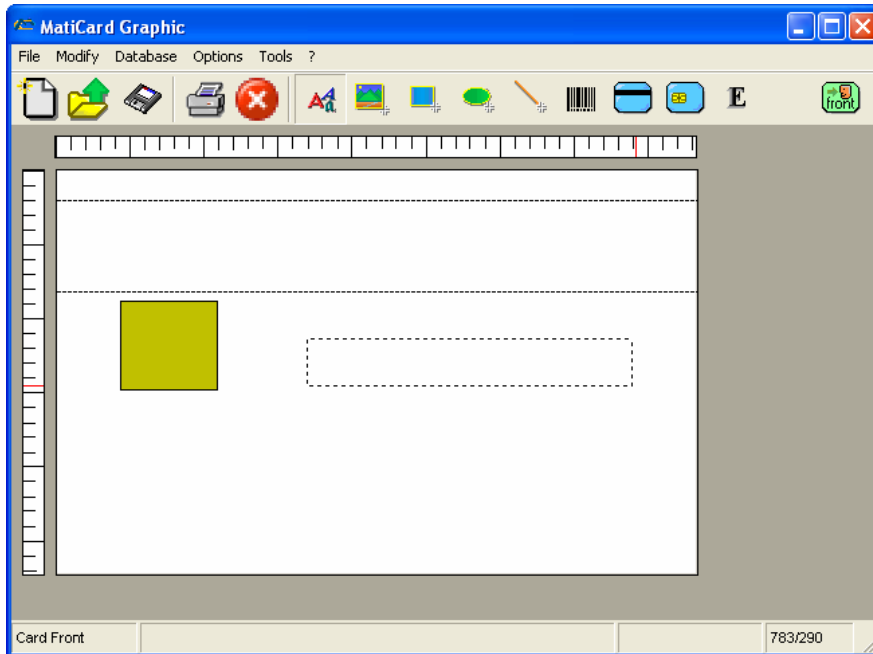
When all the options are inserted, click on the **Apply** button.



**Fig. 2.4: Embossing variable data.**

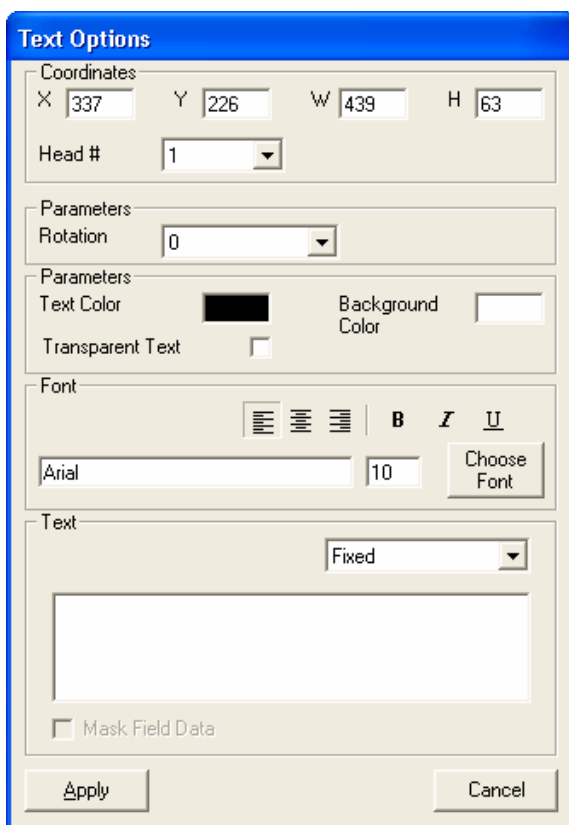
## Paragraph 2.2 – Inserting a text to print

To insert a text for the Thermographic Printer, click the **Text** button  on the tool bar and draw with the mouse the area where to edit the text.



**Fig. 2.5: Draw Printer text editing zone.**

The **Text Options** window will be displayed.



**Fig. 2.6: Text Options window.**

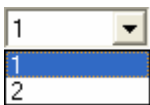
To adjust the position of the text, digit the **X** and **Y** coordinates values into the related boxes; the axis origins is on the upper left corner of the card, while the coordinates point is the upper left corner of the editing area.

To adjust the editing area dimensions, digit the width value into the **W** box and the height value into the **H** box.

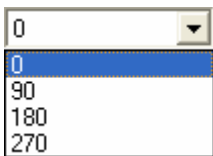
The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

The editing area could also be moved or resized with the mouse.

If the machine has more than one Thermographic Printer set to print on the current job side, select which module had to print the text in the combo box named **Head #**.

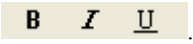


To set the text **Rotation**, select in the related combo box the rotation degrees.



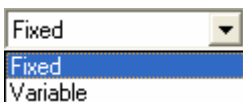
Choose the color of the text clicking on the **Text Color** box and the color of the editing area clicking on the **Background Color** box. If the option **Transparent Text** is check marked, the editing area won't have any color.

To align the text into the editing area click on the alignment buttons .

To set the style text click on the bold, italic or underline buttons .

Click on the **Choose Font** button to select the font, its style, its size and its script. It can be used each font present in the operating system, the choice will be shown in the boxes near the button.

In the combo box under to the font boxes, select if the text is fixed or variable.



If the text is fixed, write the **Text** to print in the related box and click on the **Apply** button.

In this way the job will display the text inserted.

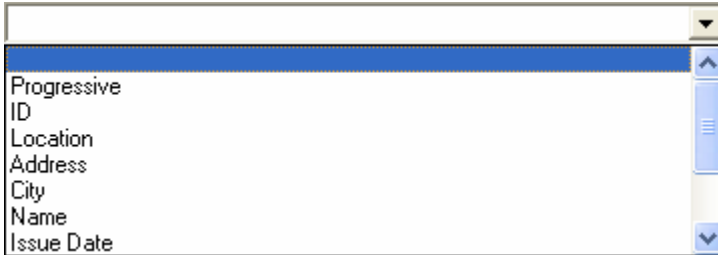
*Sample Text*

The text could also be horizontally or vertically mirrored just clicking on a corner of the editing area and dragging it to the opposite side.

To print variable data text, connect the job to a database as shown in Paragraph 4.2; then click the Text button on the tool bar, draw the editing area and select the **Variable** option into the combo box near the Text box.



In this way the Text box becomes a combo box where to select the field containing the data to print.

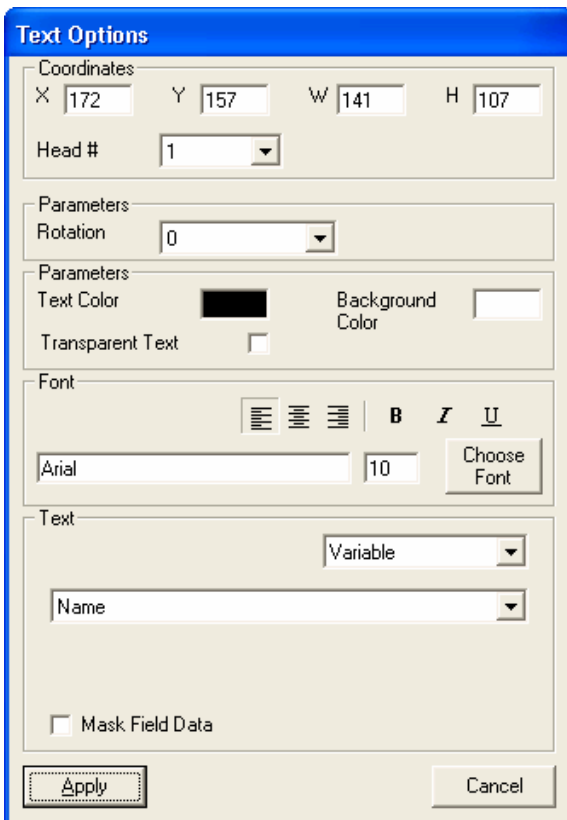


Together with the connected table fields, into the Text combo box there are also two default fields named \$DATE and \$TIME; these fields are present even with no database connection. To insert the current date and time on the job, select the related field and it will be automatically updated.

To combine fixed or variable data, use the Special Fields function (see Paragraph 4.8).


To display in the layout only the first and the last digit of the data to print, showing the other ones as asterisks, check mark the **Mask Field Data** option. The other options are the same as for the fixed data.

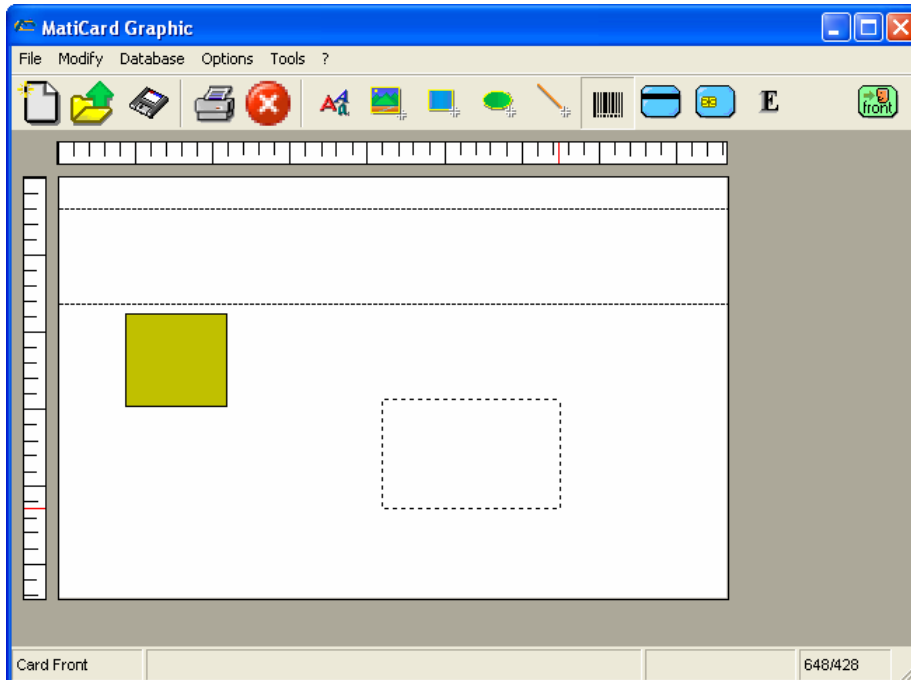
When all the options are inserted, click on the **Apply** button.



**Fig. 2.7: Printing with variable data.**

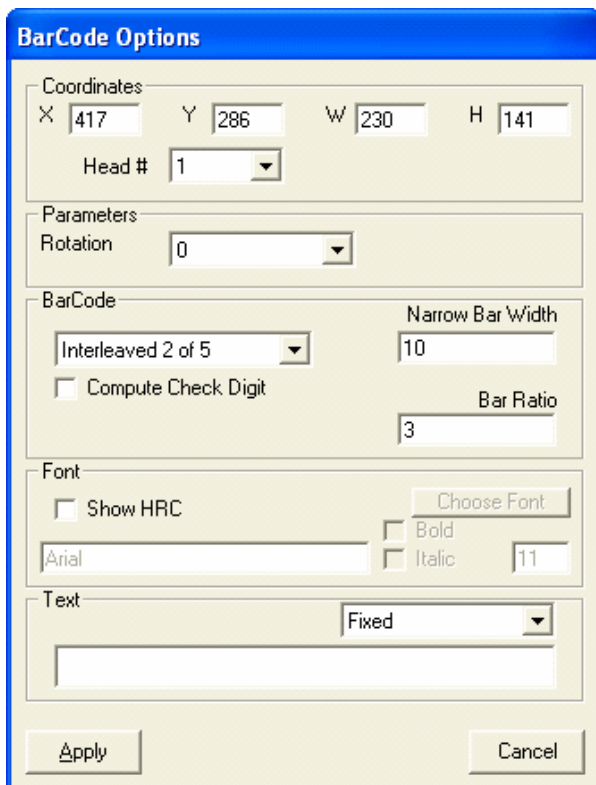
## Paragraph 2.3 – Inserting a barcode

To insert a barcode, click the **BarCode** button  on the tool bar and draw with the mouse the inserting area on the job.



**Fig. 2.8: Draw Barcode area.**

The **BarCode Options** window will be displayed.



**Fig. 2.9: BarCode Options window.**

To adjust the position of the barcode, digit the **X** and **Y** coordinates values into the related boxes; the axis origins is on the upper left corner of the card, while the coordinates point is the upper left corner of the inserting area.

To adjust the barcode dimensions, digit the width value into the **W** box and the height value into the **H** box, considering the barcode ratio limitations.

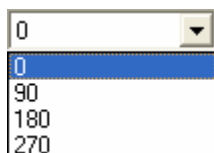
The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

The barcode could also be moved or resized with the mouse, with the limitations related to the barcodes ratio.

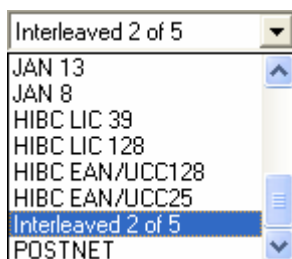
If the machine has more than one Thermographic Printer set to print on the current job side, select which module had to print the barcode in the combo box named **Head #**.



To set the barcode **Rotation**, select in the related combo box the rotation degrees.



Select the **BarCode** type in the related combo box.



To calculate and show the check digit character of the selected barcode, check mark the **Compute Check Digit** option.

Depending on the chosen barcode, other parameters related to that particular type could be displayed and check marked; i.e. selecting the Code 39 barcode the parameter Add Asterisks will be shown, and selecting the Code 128 barcode a new combo box with the parameters A, B and C will be shown.



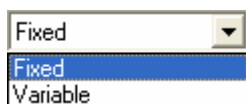
To set the barcode **Narrow Bar Width**, digit the desired value in the related box; the measure unit is three hundredths of DPI (dots per inch).

To set the ratio between the narrow bands and the large bands of a barcode, digit the desired value in the **Bar Ratio** box.

This parameter is not available for every type of barcode; in fact it can't be modified with the following types: Code 93, Code 128, EAN 128, UPC A, UPC E, EAN 13, EAN 8, JAN 13, JAN 8, HIBC LIC 128 and HIBC EAN/UCC128.

To print also the numbers and/or the letters represented by the barcode bars and spaces, check mark the **Show HRC** (Human Readable Characters) option. Click on the **Choose Font** button to select the HCR font, its style, its size and its script. It can be used each font present in the operating system, the choice will be shown in the boxes near the button.

In the combo box under the font boxes, select whether the barcode text is fixed or variable.



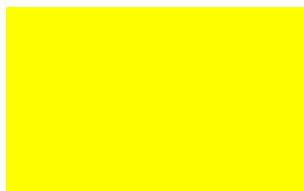
If the text is fixed, write the barcode **Text** in the related box and click on the **Apply** button.

In this way the job will display the barcode inserted.



If the text written in the BarCode Option window is not compatible with the selected type, the barcode displayed will be all yellow.

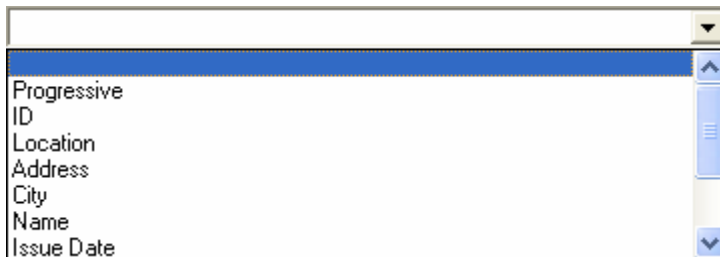
In this case double click on the yellow area and change the text in order to make the barcode printable.



To insert a barcode with variable data, connect the job to a database as shown in Paragraph 4.2; then click the BarCode button on the tool bar, draw the inserting area and select the **Variable** option into the combo box near the Text box.



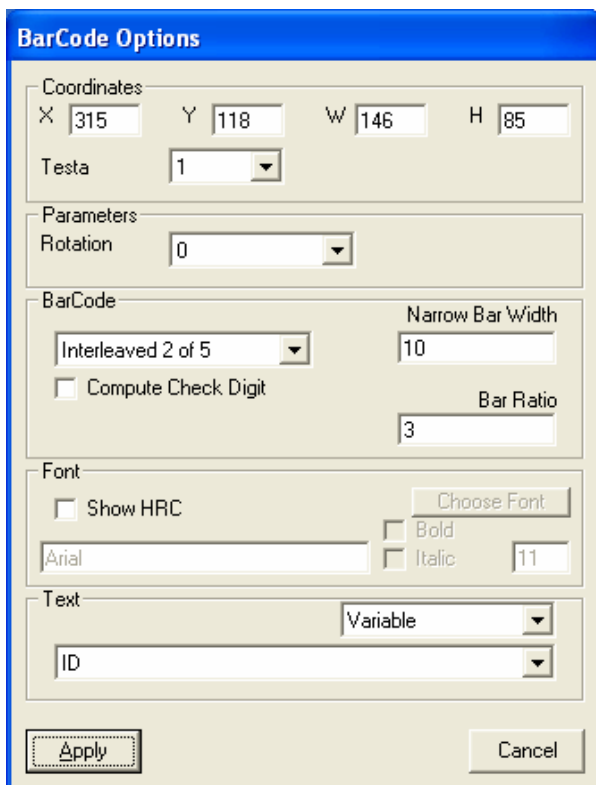
In this way the Text box becomes a combo box where to select the field containing the data to use for the barcode.



Together with the connected table fields, into the Text combo box there is also another field named \$CARDID; this field is present even with no database connection. To use the default card ID for the barcode data, select this field and it will be automatically increased of one unit at each card printing.


To combine fixed or variable data, use the Special Fields function (see Paragraph 4.8). The other options are the same as for the fixed data.

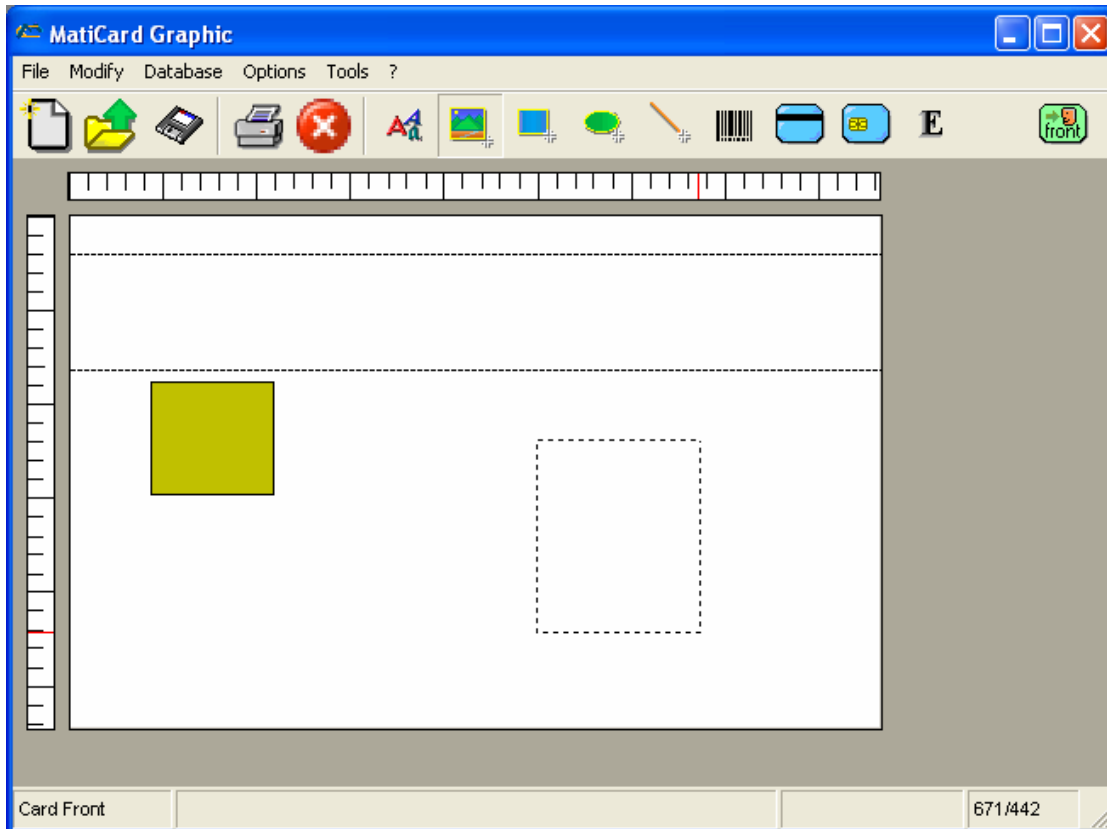
When all the options are inserted, click on the **Apply** button.



**Fig. 2.10: Barcode with variable data.**

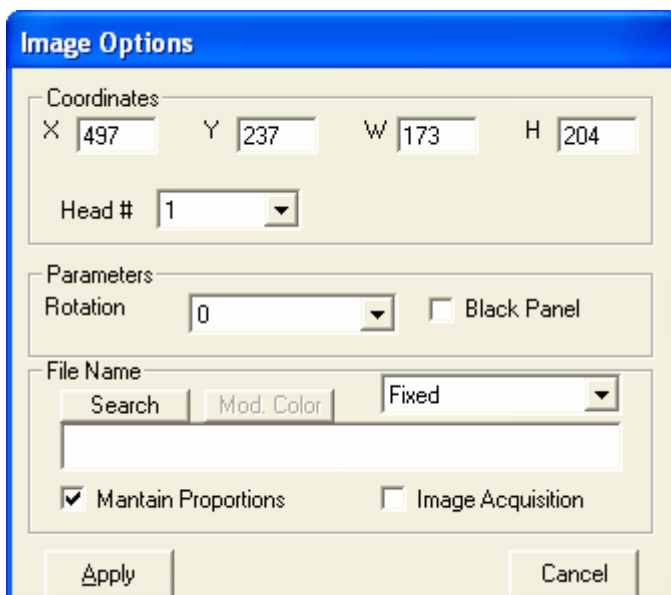
## Paragraph 2.4 – Inserting an image

To insert an image, click the **Image** button  on the tool bar and draw with the mouse the inserting area on the job.



**Fig. 2.11: Draw Image area.**

The **Image Options** window will be displayed.



**Fig. 2.12: Image Options window.**

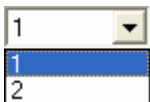
To adjust the position of the image, digit the **X** and **Y** coordinates values into the related boxes; the axis origins are the left edge and the upper edge of the card, while the coordinates point is the upper left corner of the inserting area.

To adjust the image dimensions, digit the width value into the **W** box and the height value into the **H** box.

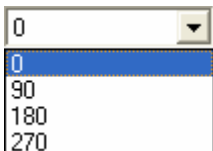
The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

The image could also be moved or resized with the mouse, but its proportion will be locked if the option **Maintain Proportions** is check marked.

If the machine has more than one Thermographic Printer set to print on the current job side, select which module had to print the image in the combo box named **Head #**.



To set the image **Rotation**, select in the related combo box the rotation degrees.



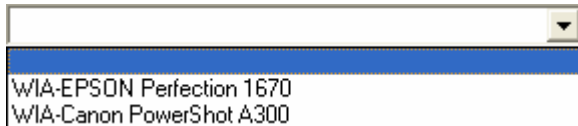
Check mark the **Black Panel** options if the ribbon on the Thermographic Printer is full colors and the image has to be printed only in black and white. To set the type of ribbon see Paragraph 5.5.

In the combo box under to the Black Panel option, select if the image is fixed or variable.



If the image is fixed, the related file can be simply browsed by clicking on the **Search button**; the chosen file and its path will be shown in the **File Name** box.

The image can also be acquired by check marking the **Image Acquisition** option. In this way a program can be used as interface for the acquisition, just browsing it with the button near the **External Program** box (see MatiCard Add-Ins documentation); or can be used a **Twain Source** already installed, choosing it with related the combo box (see Paragraph 7.4).



Click on the **Apply** button and the job will display the image inserted; if the ribbon is black or the Black Panel option is checked, the image displayed will be black and white.

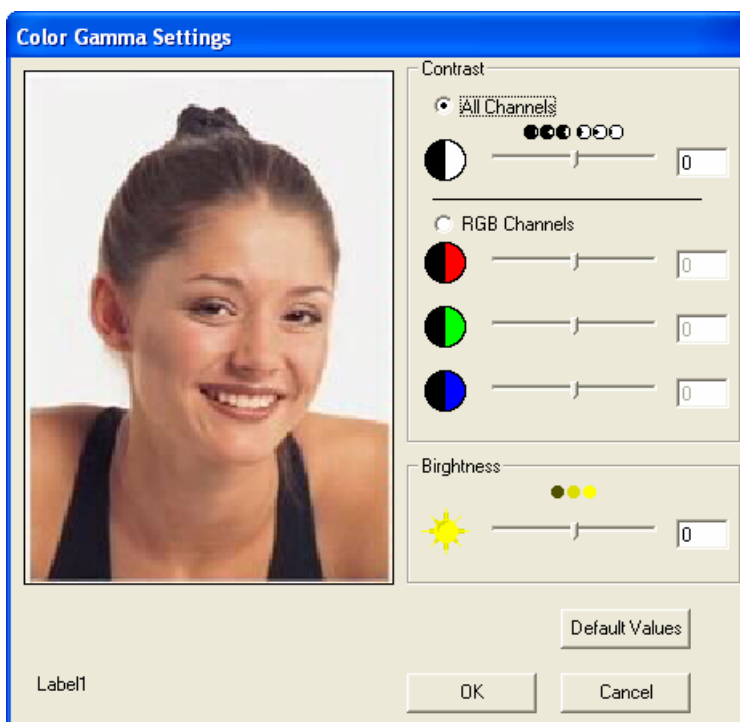


The image could also be horizontally or vertically mirrored just clicking on a corner of the editing area and dragging it to the opposite side.

If the image colors, brightness or contrast have to be changed, double click on the image inserted, then click on the **Mod. Color** button in the Image Options window and the **Color Gamma Settings** window will be displayed.

To restore the **Default Values** click on the related button.

When all the desired modifications have been made, click on the **OK** button.

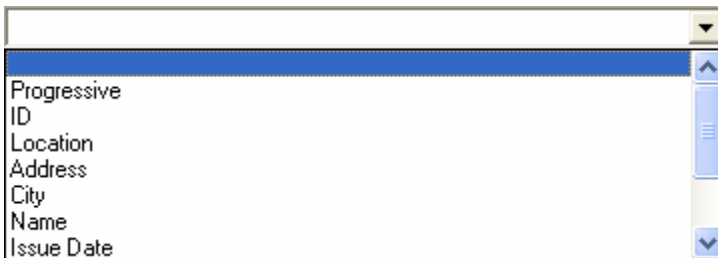


**Fig. 2.13: Color Gamma Settings window.**

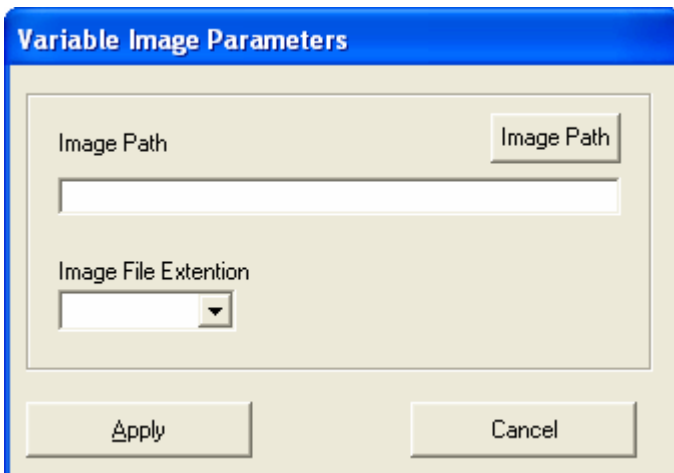
To insert an image with variable data, connect the job to a database as shown in Paragraph 4.2; then click the Image button on the tool bar, draw the inserting area and select the **Variable** option into the combo box near the File Name box.



In this way the File Name box becomes a combo box where to select the field containing the names of the images to print.



Also the Search button near the File Name becomes the **Options** button; click on this button and the Variable Image Parameters window will be displayed.



**Fig. 2.14: Variable Image Parameters.**

Insert in the **Image Path** box where the images to print are saved, or browse it clicking the button aside the box; the saved image file name must be the same of the related selected field. Then Select in the **Image File Extension** combo box the images format and click on the **Apply** button.

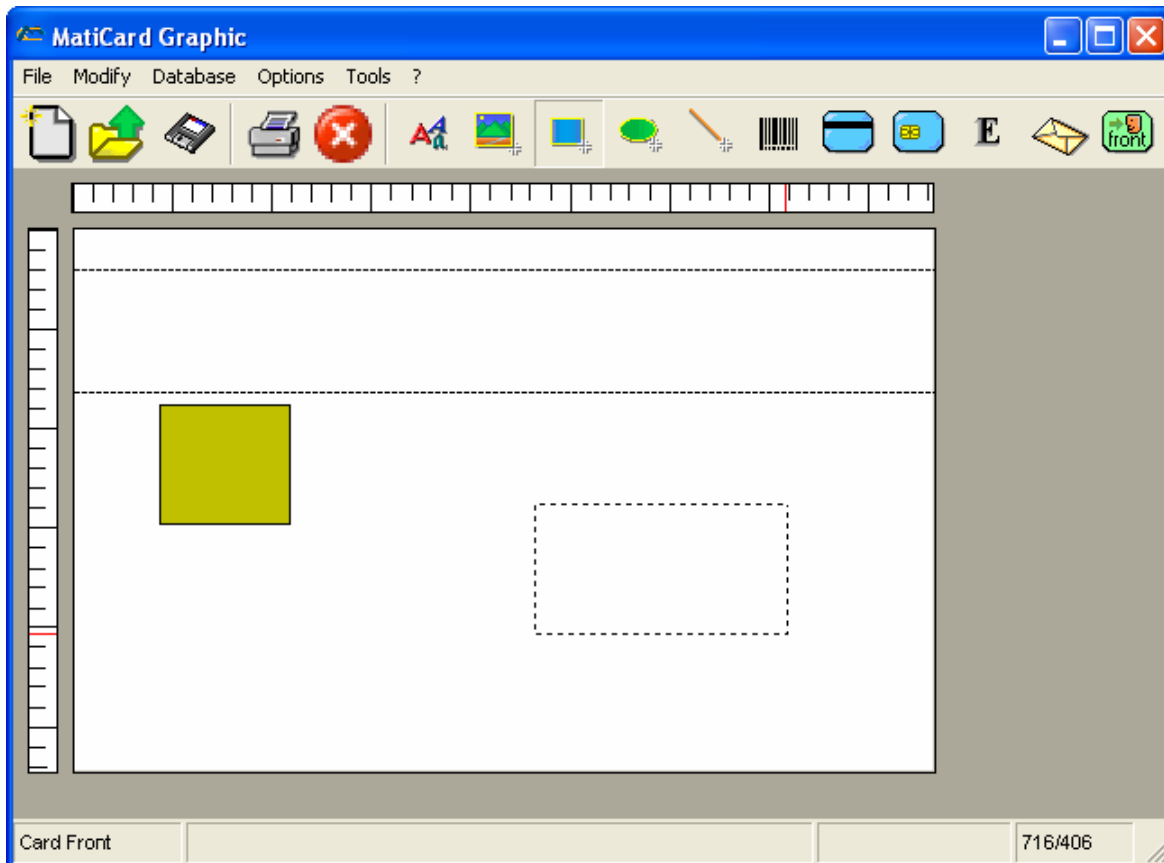
If the images path and extension is already written in the selected database field, together with the names, there's no need to click the Option button.

To combine fixed or variable data, use the Special Fields function (see Paragraph 4.8).

The other options are the same as for the fixed data. When all the options are inserted, click on the **Apply** button in the Image Options window.

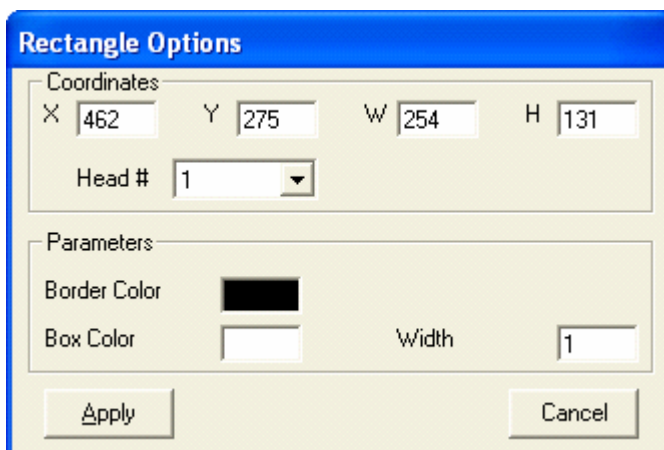
## Paragraph 2.5 – Inserting a rectangle

To insert a rectangle, click the **Rectangle/Square** button  on the tool bar and draw with the mouse the inserting area on the job.



**Fig. 2.15: Draw Rectangle.**

Double click on the inserted shape and the **Rectangle Options** window will be displayed.



**Fig. 2.16: Rectangle Options window.**



To adjust the position of the rectangle, digit the **X** and **Y** coordinates values into the related boxes; the axis origins are the left edge and the upper edge of the card, while the coordinates point is the upper left corner of the inserting area.

To adjust the rectangle dimensions, digit the width value into the **W** box and the height value into the **H** box.

To obtain a square shape, the width and height values must be the same.

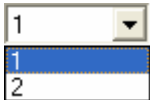
To obtain a vertical line, the width value must be zero.

To obtain a horizontal line, the height value must be zero.

The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

The rectangle could also be moved or resized with the mouse.

If the machine has more than one Thermographic Printer set to print on the current job side, select which module had to print the rectangle in the combo box named **Head #**.



To set the rectangle **Border Color** click on the related box, then select it in the **Color** window and click on the **OK** button.


To set the rectangle border **Width** digit the value in the related box; the measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

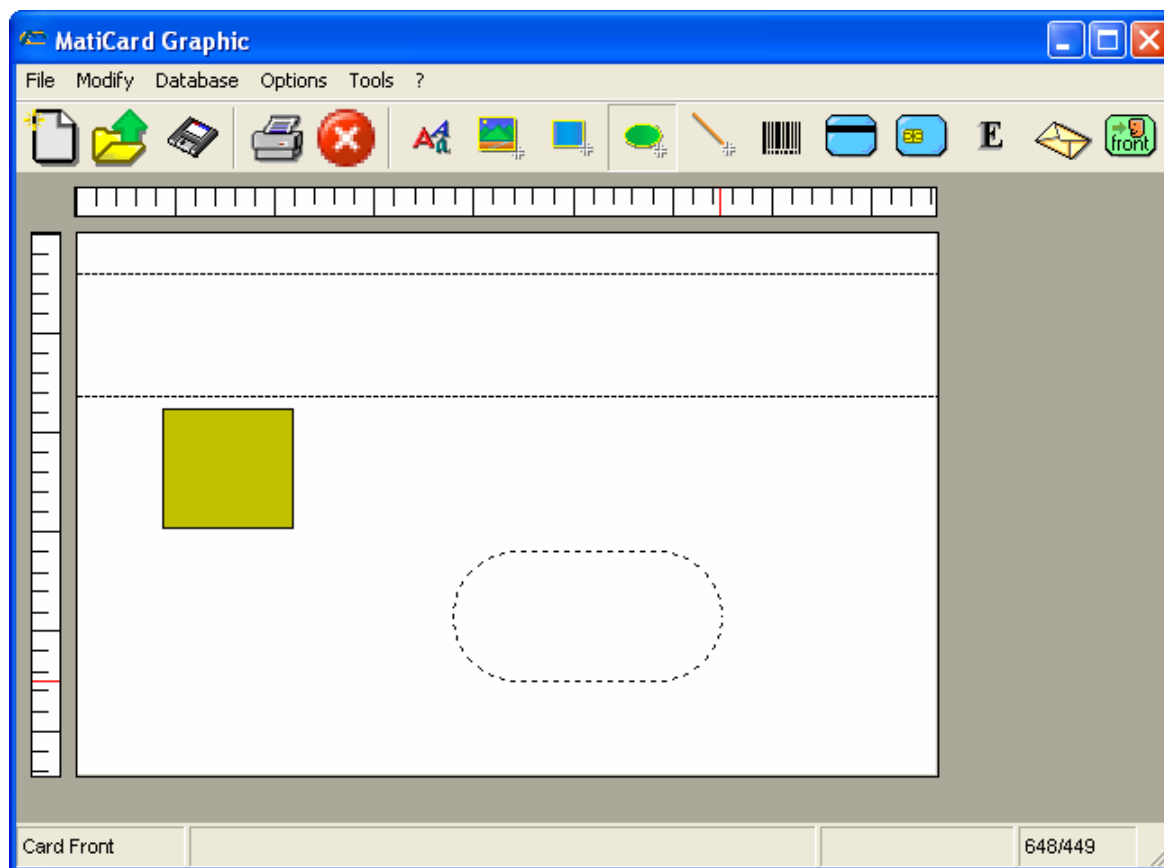
To set the rectangle color click on the **Box Color**, then select it in the **Color** window and click on the **OK** button.

Click on the **Apply** button and the job will display the inserted rectangle.



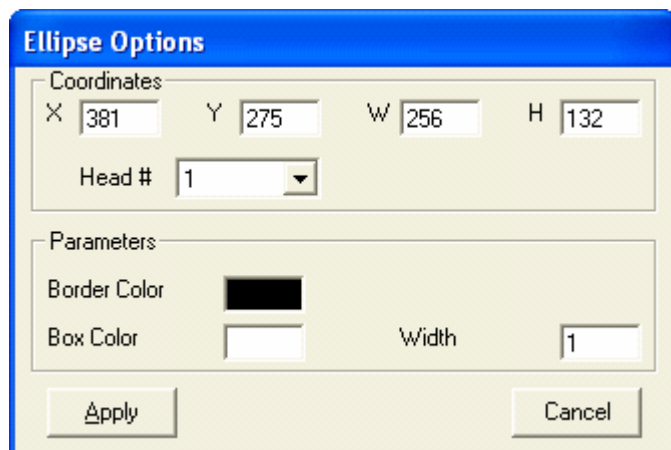
## Paragraph 2.6 – Inserting an oval

To insert an oval, click the **Oval/Circle** button  on the tool bar and draw with the mouse the inserting area on the job.



**Fig. 2.17: Draw Oval area.**

Double click on the inserted shape and the **Ellipse Options** window will be displayed.



**Fig. 2.18: Ellipse Options window.**

To adjust the position of the oval, digit the **X** and **Y** coordinates values into the related boxes; the axis origins are the left edge and the upper edge of the card, while the coordinates point is the upper left corner of the inserting area.

To adjust the oval dimensions, digit the width value into the **W** box and the height value into the **H** box; the dimensions refer to a hypothetical rectangle into which the oval is inscribed.

The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

The oval could also be moved or resized with the mouse.

If the oval area is selected, Inside the oval area two yellow curving points will be displayed; dragging these points with the mouse changes the oval shape. Moving the yellow points outward, the shape will be less curved and tend to become a rectangle; while moving the yellow points inward, the shape will be more curved and tend to be an ellipse.

To obtain an ellipse, the two yellow points must be exactly in the middle of the shape area.

To obtain a circle , the two yellow points must be exactly in the middle of the shape area and the width and height values must be the same.

If the machine has more than one Thermographic Printer set to print on the current job side, select which module had to print the oval in the combo box named **Head #**.

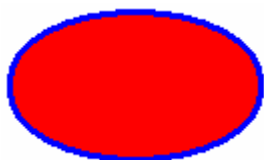
1	▼
1	
2	

To set the oval **Border Color** click on the related box, then select it in the **Color** window and click on the **OK** button.


To set the oval border **Width** digit the value in the related box; the measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

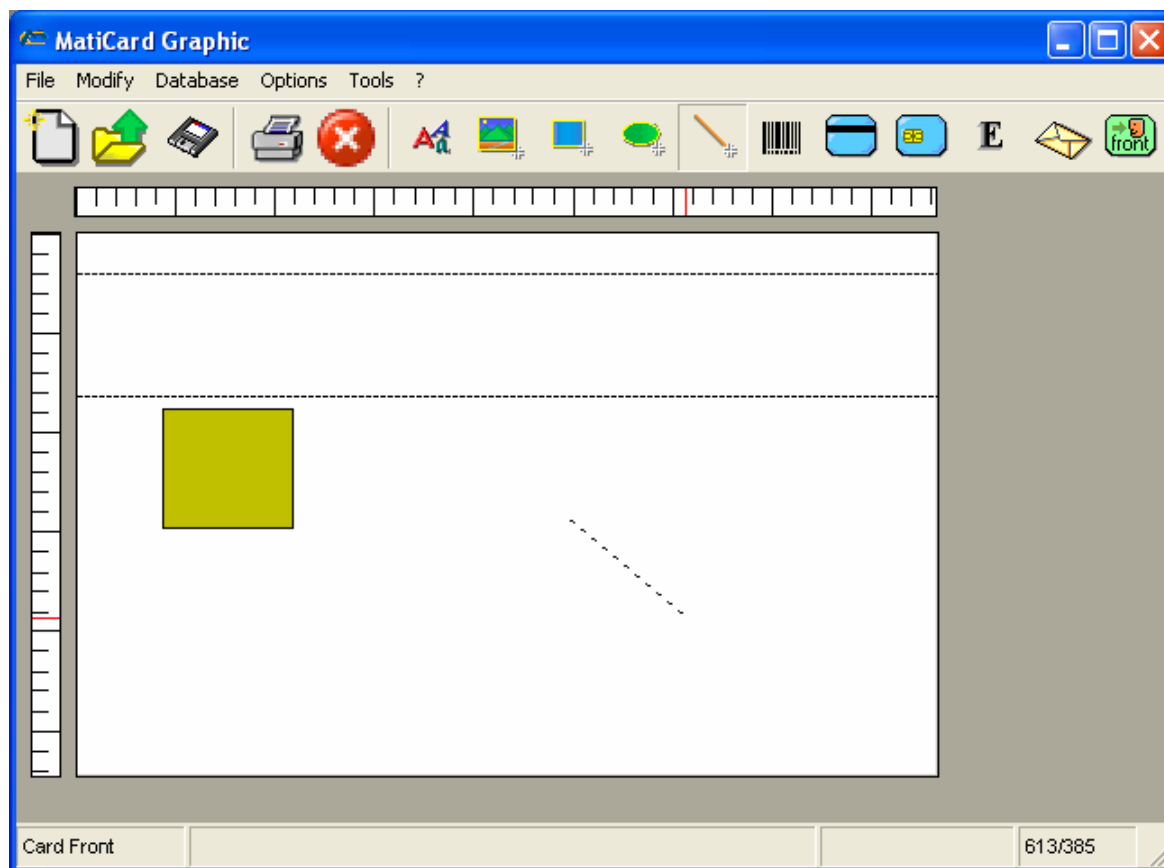
To set the oval color click on the **Box Color**, then select it in the **Color** window and click on the **OK** button.

Click on the **Apply** button and the job will display the inserted oval.



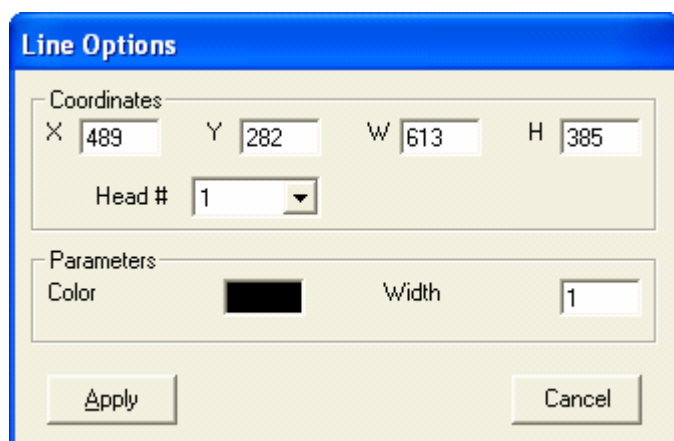
## Paragraph 2.7 – Inserting a line

To insert a line, click the **Line** button  on the tool bar and draw it with the mouse on the job.



**Fig. 2.19: Draw a line.**

Double click on the inserted line and the **Line Options** window will be displayed.



**Fig. 2.20: Line Options window.**

To adjust the position, the length and the orientation of the line, digit the **X** and **Y** coordinates values into the related boxes for one line end and the **W** and **H** coordinates values into the related boxes for the other end; the axis origins are the left edge and the upper edge of the card.

The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

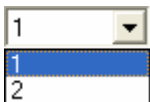
The line could also be moved, reoriented or resized with the mouse.

To obtain a horizontal line the Y and H boxes values must be the same.

To obtain a vertical line the X and W boxes values must be the same.

To obtain a diagonal line of an hypothetical square, the difference between the X and Y boxes values and between the W and H boxes values, or the difference between the W and X boxes values and between the H and Y boxes values, must be the same.

If the machine has more than one Thermographic Printer set to print on the current job side, select which module had to print the line in the combo box named **Head #**.



A screenshot of a software interface showing a dropdown menu for 'Head #'. The menu is open, displaying two options: '1' and '2'. Option '1' is highlighted with a blue background, indicating it is the selected value.

To set the line **Color** click on the related box, then select it in the **Color** window and click on the **OK** button.

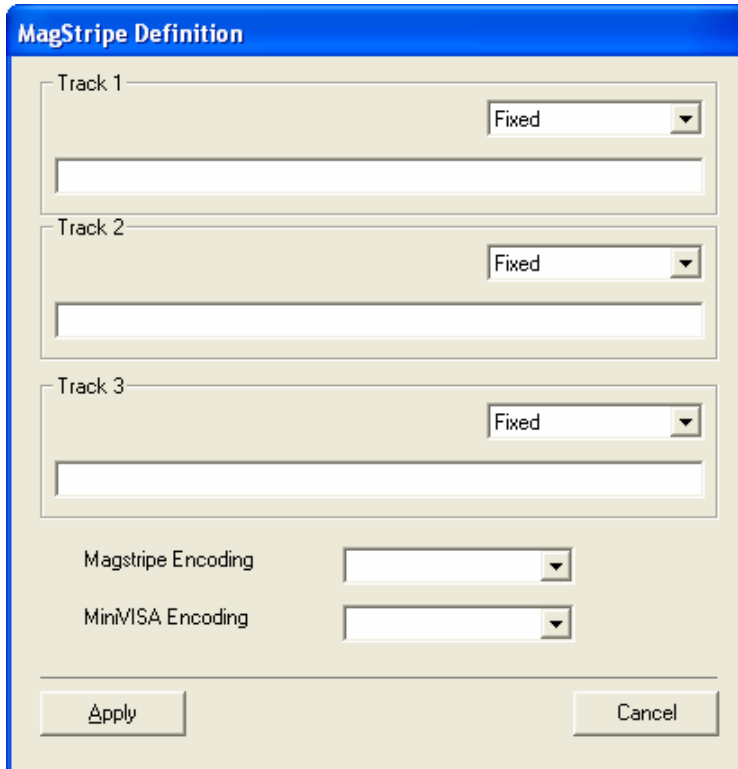
To set the line **Width** digit the value in the related box; the measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

Click on the **Apply** button and the job will display the inserted line.



## Paragraph 2.8 - Encoding magnetic tracks

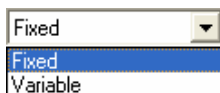
To code the magnetic tracks, click the **Mag Stripe** button  on the tool bar. The **MagStripe Definition** window shows the three magnetic tracks.

The image shows the 'MagStripe Definition' window. It has a blue title bar. Inside, there are three sections for 'Track 1', 'Track 2', and 'Track 3'. Each section contains a text input field and a dropdown menu currently set to 'Fixed'. Below these sections are two more dropdown menus labeled 'Magstripe Encoding' and 'MiniVISA Encoding'. At the bottom are 'Apply' and 'Cancel' buttons.

**Fig. 2.21: MagStripe definition window.**

The **Track 1** has 76 available characters both alphanumeric (upper case only) and field separator, the **Track 2** has 37 available characters both numeric and field separators, the **Track 3** has 104 available characters both numeric and fields separator.

In the combo box near to each track, select if the data are fixed or variable.

The image shows a dropdown menu with 'Fixed' selected. The menu is open, showing 'Fixed' and 'Variable' as options.

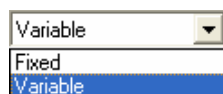
In the **Magstripe Encoding** combo box, select if the coercivity is low (Lo-Co) or if it's high (Hi-Co). The coercivity is measured in Oersted (OE); Hi-co can have from 2.500 to 4.200 Oersted, Lo-co has 300 Oersted. If is not selected any coercivity, is considered the default setup of the machine.

To enable the **MiniVISA Encoding**, select Yes in the related combo box, otherwise select No; without any selection, is considered the default setup.

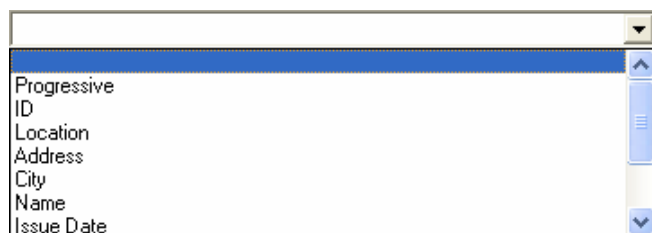
If the data are fixed, click on the desired tracks and type the data.

When all the fixed data are inserted, click on the **Apply** button.

To encode variable data, connect the job to a database as shown in Paragraph 4.2; then click the Mag Stripe button on the tool bar and select the **Variable** option into the combo box near the desired Track box.



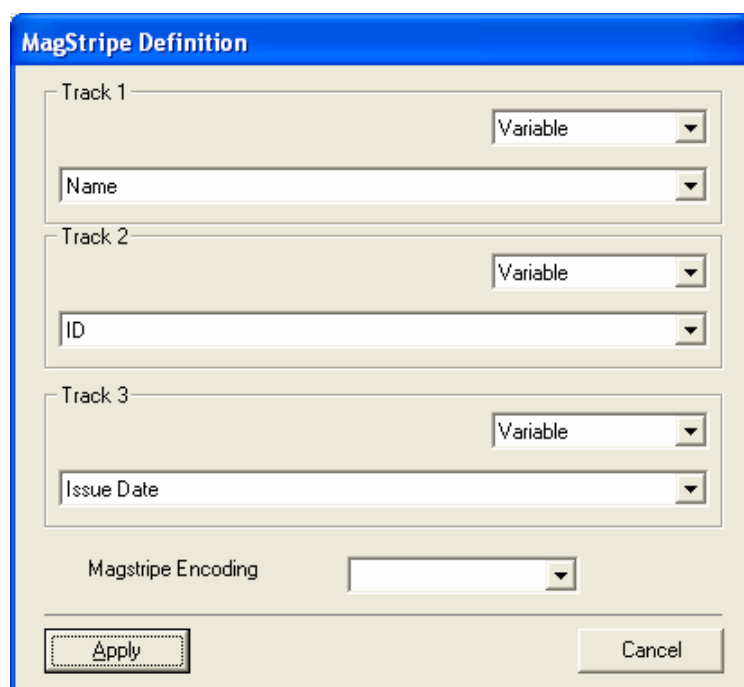
In this way the related Track box becomes a combo box where to select the field containing the data to encode.



To combine fixed or variable data in a single track, use the Special Fields function (see Paragraph 4.8).

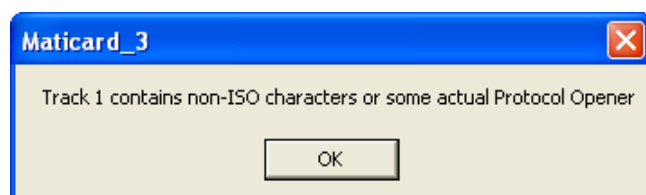
The other options are the same as for the fixed data.

When all the data are inserted, click on the **Apply** button.



**Fig. 2.22: Encoding with variable data.**

If not-ISO characters are inserted into a track, a message box will be shown.



**Fig. 2.23: Not-ISO characters.**

## Paragraph 2.9 – Chip personalization

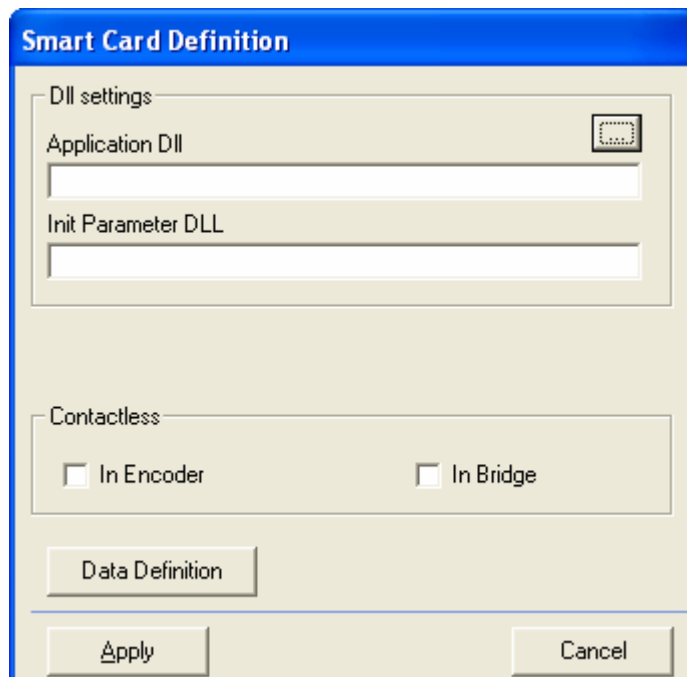
To personalize the chip, click the **Smart Card** button  on the toolbar and the **Smart Card Definition** window will be displayed.

### Multi Chip Personalization

If the personalization is performed by a Multi Chip Module, select the Dynamic Link Library (DLL) file into the **Application DLL** box; this DLL file can be browsed by clicking the button aside the box.

Into the **Init Parameter DLL** box can be specified other parameters requested by the DLL file, thanks to the INIT() DLL function.

For further information refer to the MultiChip SDK documentation.



**Fig. 2.24: Multi Chip Smart Card.**

If the Chip personalization is **Contactless**, check mark into the related area where the contactless chip reader is mounted (Encoder or Bridge module).

The **Data Definition** button regards only the variable data personalization.

If the Data Definition function is not requested, click on the **Apply** button when all the settings are inserted.

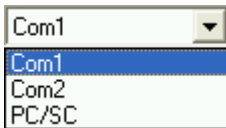


## Single Chip Personalization

If the personalization is performed by a Single Chip, select the **Interface file format** into the related box of the Smart Card Definition window.



If the **DLL** format is selected, set the Application DLL file and the possible other parameters requested, as described for the Multi Chip Module; then select the serial port used in the **Port Configuration** combo box.



In the other **Port Configuration** box aside, specify possible port configuration parameters (for example 9600,n,8,1).

If the **EXE** format is selected, select the executable file into the **SmartCard Program** box and the data interface file between MatiCard and the SmartCard Program into the **Interface File** box; this files can be browsed clicking the buttons aside the boxes.

It's strongly recommended to select the **EXE Ini File** instead of the **EXE Single Line**, in fact the last one is compatible only with previous systems.

Click on the **Create Test File** button to generate an interface test file. For further information refer to the Single Chip SDK documentation.

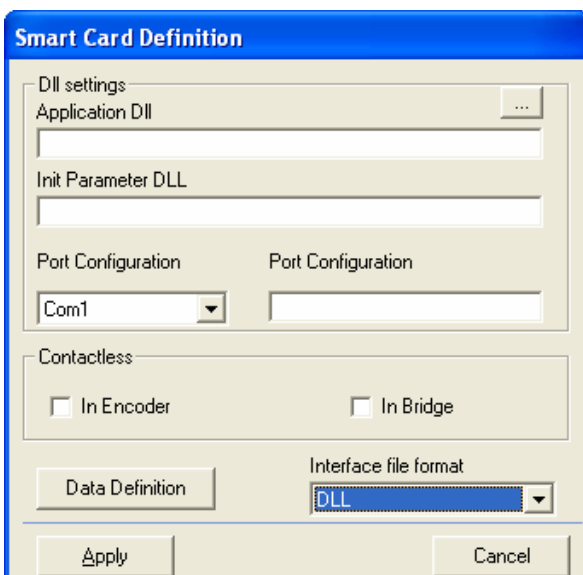


Fig. 2.25: Single Chip DLL format.

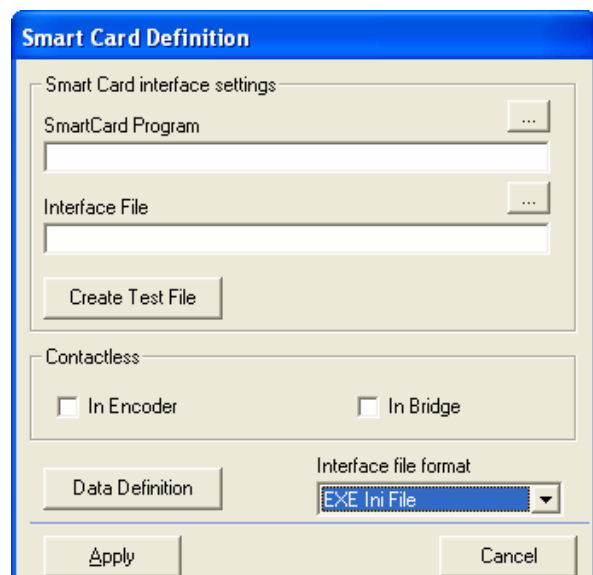


Fig. 2.26: Single Chip EXE format.

The **Data Definition** button regards only the variable data personalization. If the Data Definition function is not requested, click on the **Apply** button when all the settings are inserted.

## Variable Data Personalization

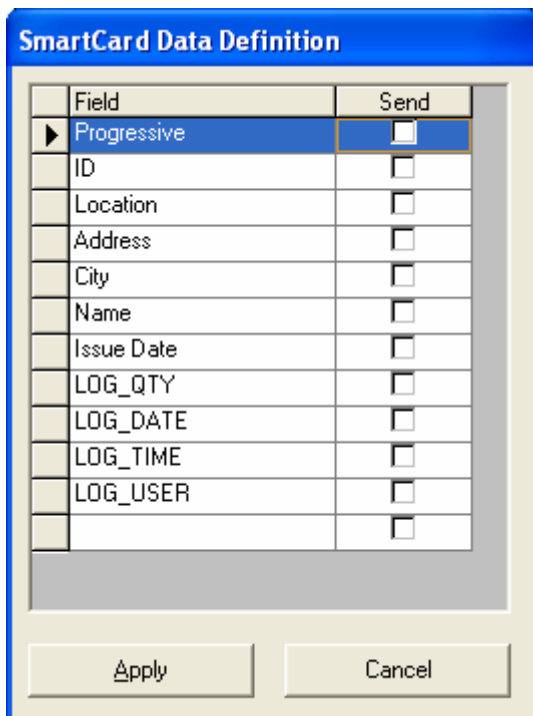
To personalize the chip with variable data, connect the job to a database as shown in Paragraph 4.2; then click the Smart Card button on the tool bar and click on the **Data Definition** button into the Smart Card Definition window.

The following procedure is the same for Multi-Chip personalization and Single Chip personalization.

The **SmartCard Data Definition** window will be displayed.

This window shows all the connected database table fields in the **Field** column.

Check mark the **Send** box near the Field to use for the chip personalization.



**Fig. 2.27: Variable data definition.**

When all the desired fields are check marked, click on the **Apply** button.


To combine fixed or variable data, use the Manage Special Fields command (see Paragraph 4.8)

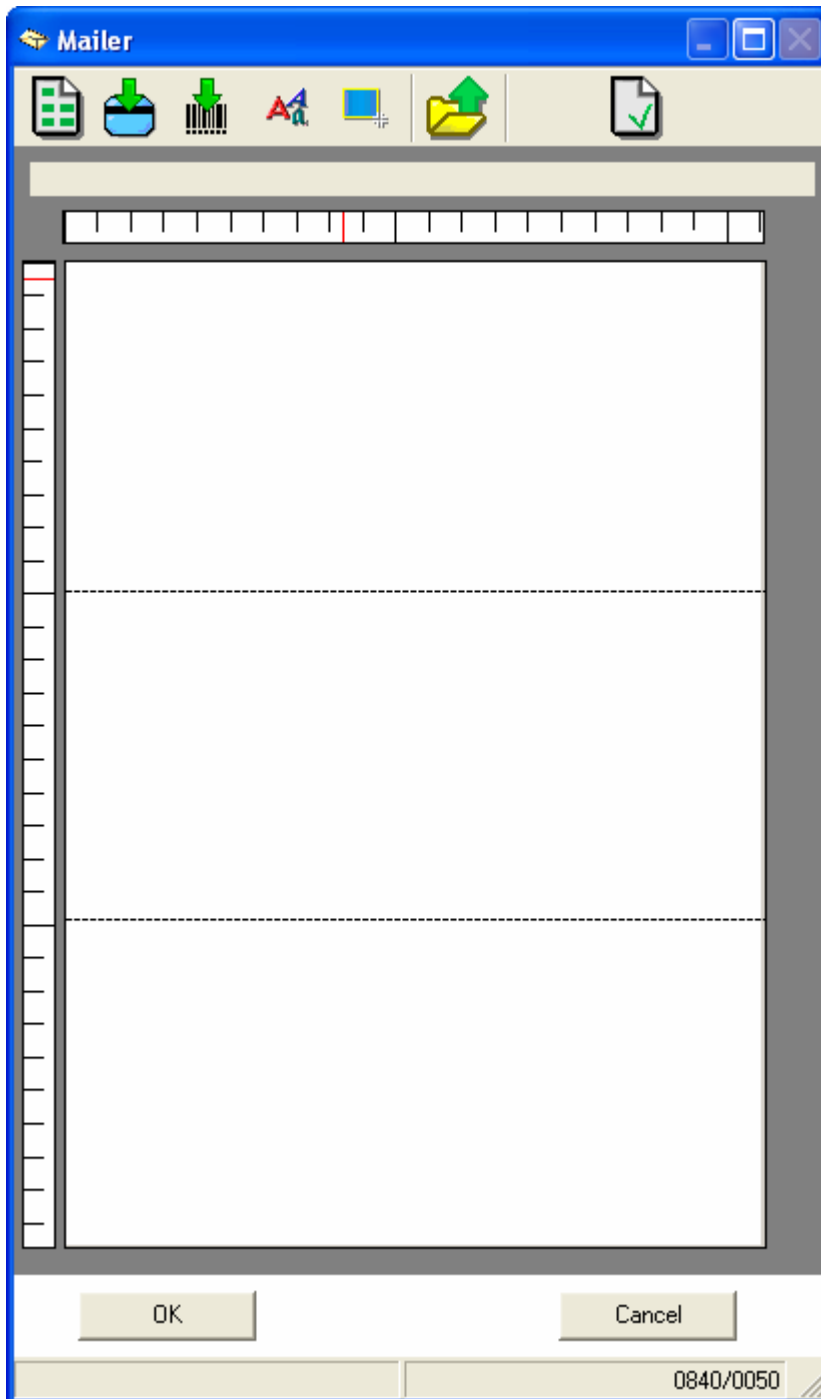
The other options are the same as for the fixed data.

When all the settings are inserted, click on the **Apply** button in the Smart Card Definition window.

## Chapter 3 – Mailer personalization


MatiCard can personalize the Mailer carrier layout, where the plastic cards have to be attached, in order to print the inserted personalization on the carrier.

To personalize the Mailer carrier, click the **Mailer** button  on the MatiCard tool bar and the **Mailer** window will be displayed.

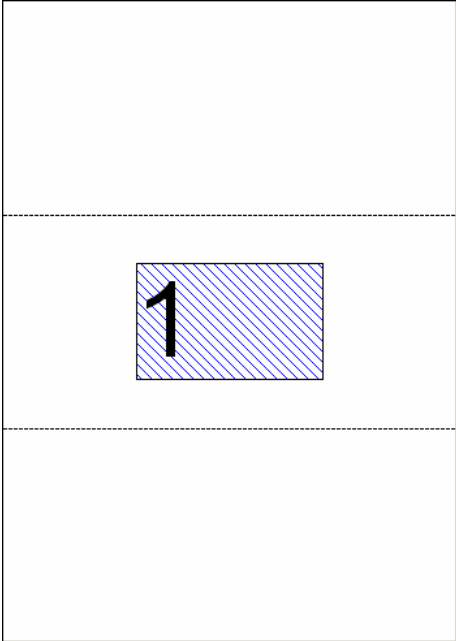


**Fig. 3.1: Mailer window.**

## Paragraph 3.1 – Carrier cards positioning

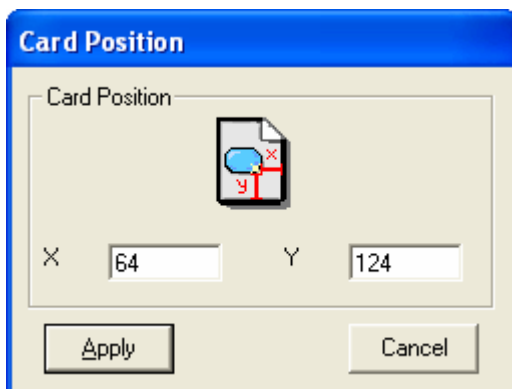
To set the card position on the carrier, click the **Add the card** button  on the Mailer window objects bar.

In this way a card will be displayed on the Mailer carrier layout.



**Fig. 3.2: Adding a card.**

Double click on the card and the **Card Position** window will be displayed.




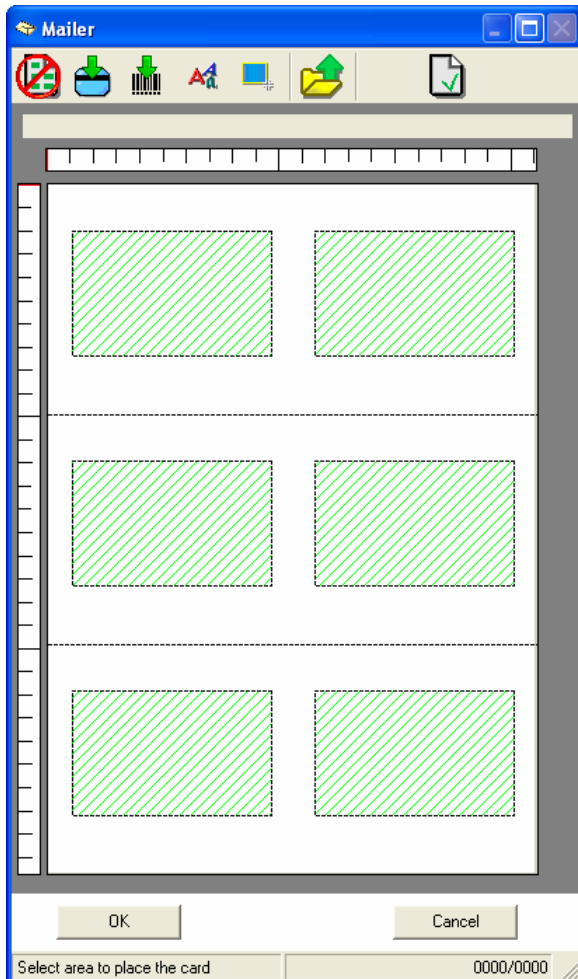
**Fig. 3.3: Card Position window.**

To adjust the position of the card, digit the **X** and **Y** coordinates values into the related boxes; the axis origins are the right edge and the lower edge of the card, while the coordinates point is the lower right corner of the card. The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen in the Preferences (see Paragraph 5.1).

The card could also be moved dragging it with the mouse.

It can be positioned on the carrier a maximum of six cards.

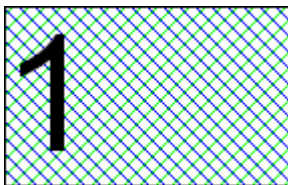
To **Show suggest positions for the card**, click the related button  on the Mailer window objects bar; the carrier layout will display the suggested positions for the maximum number of cards allowed.




**Fig. 3.4: Suggest card positions.**

In order to choose a suggested position, select with the mouse the area(s) where to place the card(s).


If a suggested position is selected, the card will be marked with a number.




This means that, clicking on the **Cancel Placing** button  of the Mailer window objects bar, the selected card will be automatically inserted on the carrier layout exactly in the suggested position. Also this card position can be adjusted, double clicking on it, or moved with the mouse.

When all the cards are positioned, click on the **OK** button.

## Paragraph 3.2 – Carrier personalization


To insert a text on the carrier, click the **Add a Text** button  on the Mailer window objects bar and draw with the mouse the editing area.

To set the text options, see Paragraph 2.2.

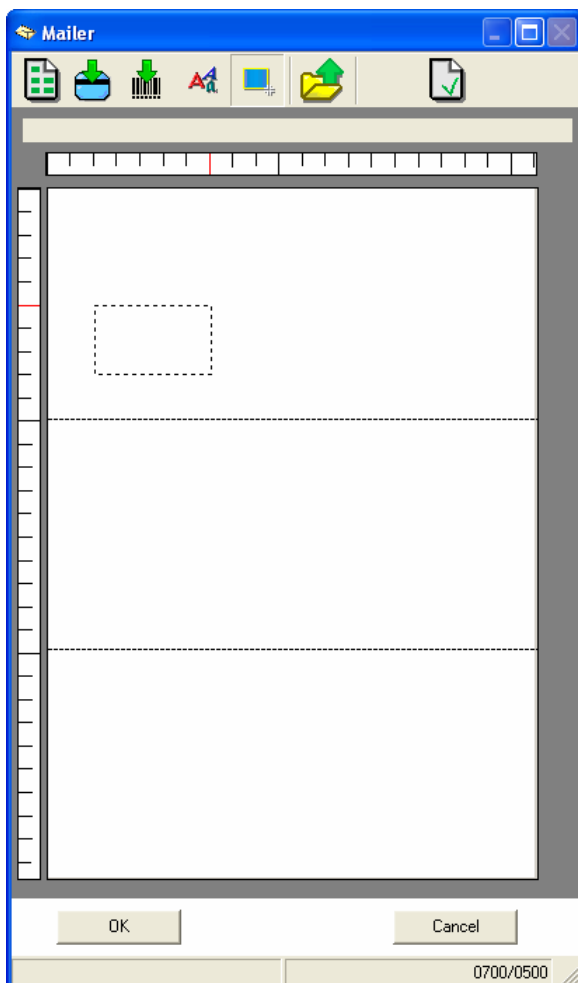
To insert a barcode on the carrier, click the **Add the Barcode** button  on the Mailer window objects bar and draw with the mouse the inserting area.

To set the barcode options, see Paragraph 2.3.

The barcode on the carrier layout is compulsory to avoid any mismatch with the plastic card; the barcode data field must be univocal as with the \$CARDID field, to guarantee the check barcode control (see Paragraph 3.5).

To insert a rectangle on the carrier, click the **Add Rectangle** button  on the Mailer window objects bar and draw with the mouse the inserting area.

To set the rectangle options, see Paragraph 2.5.



**Fig. 3.5: Inserting area.**

When all the objects are inserted, click on the **OK** button.

## Paragraph 3.3 – Carrier Word file

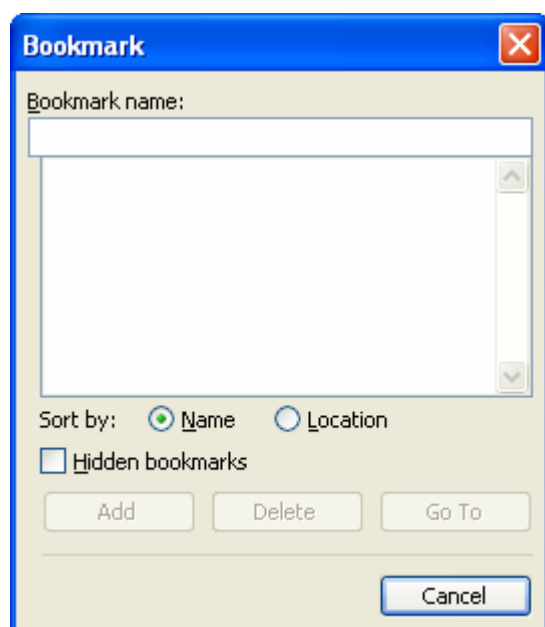
### Creating a carrier Word file

To create a Microsoft® Word file for the Mailer carrier, open the Word program.

To print a fixed data text, just insert the data in the desired position.

To print a variable data text, go in the desired position and insert a single word; now highlight this word being careful to select the whole word and only this one, without including also the line feed or tabulation.

Select the **Bookmark** command from the **Insert** menu and the Bookmark window will be displayed.



**Fig. 3.6: Bookmark window.**

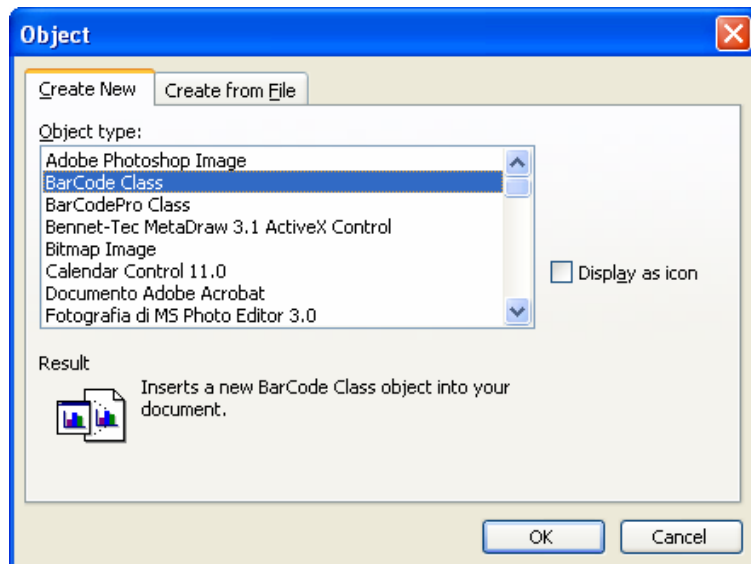
Insert, into the **Bookmark name** box, the name of the database table field where are the desired data, followed by an underscore and a progressive number; for example if the field name is ADDRESS, the bookmark name must be ADDRESS\_1. Then click on the **Add** button.

Repeat this function each time a variable data field has to be inserted into the Word file.

To insert the same data field in more than one position, it's enough to create bookmarks with the field name and with a progressive number until a maximum of 9 positions; for example ADDRESS\_1, ADDRESS\_2, ADDRESS\_3 and so on. In this way Maticard will associate the bookmark to the connected table field each time will found its name.

To print a barcode, it's necessary to purchase and install a barcode library; the barcode library used by MatiCard is the ActiveX XbarCode.

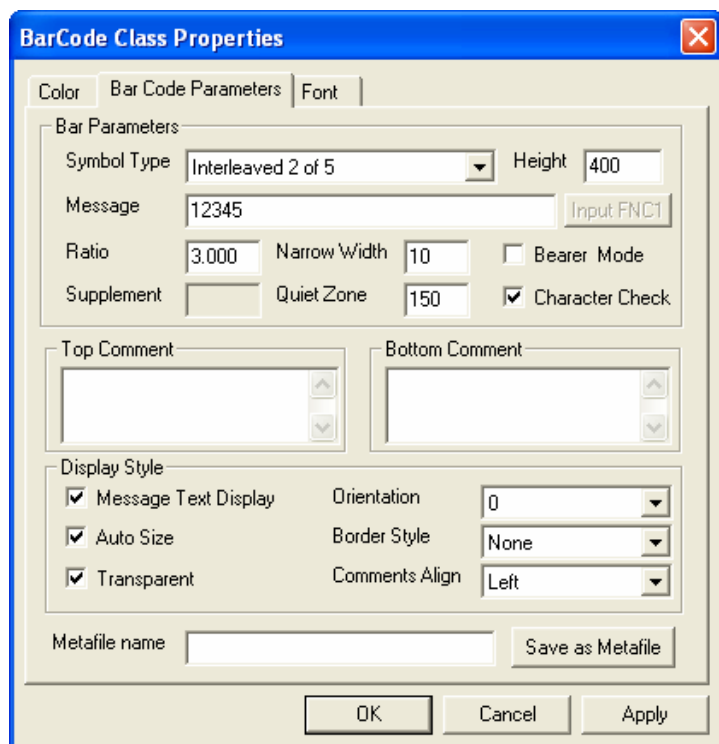
To insert a barcode, select the **Object** command from the **Insert** menu and the **Object** window will be displayed.



**Fig. 3.7: BarCode Class object.**

Select the **BarCode Class** option from the **Object type** combo box and click on the **OK** button; the insertion area will be displayed.

Now right-click on the insertion area and select the **Properties** option of the **Barcode Class Object** command; the **BarCode Class Properties** window will be displayed.



**Fig. 3.8: BarCode Class Properties.**



The suggested **Symbol Type** barcode is Interleaved 2 of 5.  
The text inserted in the **Message** box is intended only for testing purpose.

Select all the desired barcode properties and click on the **Apply** button; the barcode will be displayed into the Word file.


The barcode on the Mailer carrier is compulsory to avoid any mismatch with the plastic card; the barcode data field must be univocal as with the \$CARDID field, to guarantee the check barcode control (see Paragraph 3.5).

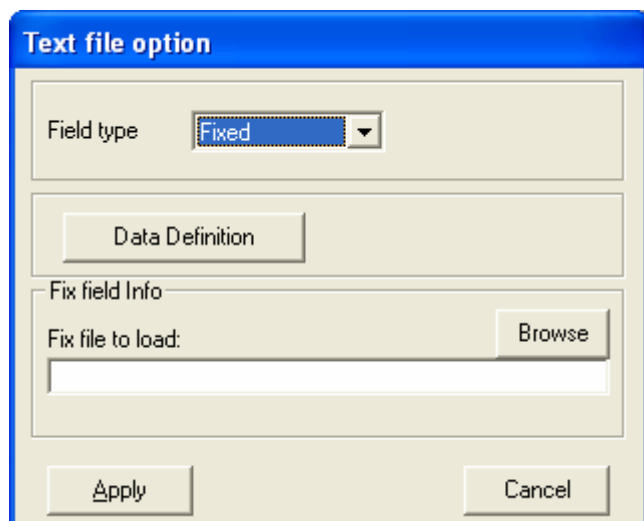
To associate the barcode data to a database table field, double click on the inserted barcode or digit Alt + F11 on the keyboard to display the Macro Editor; then select the **ThisDocument** option and insert into the related window the following subroutine:

```
Sub ChangeMaticaBarcode(sField As String, sValue As String)
'-----
    If sField = "CARDID" Then
        BarCode1.barMessage = sValue
    End If
End Sub
```

In this way the barcode data will be associated to the \$CARDID field.  
Change the name between the quotation marks to associate another field.

## Inserting a carrier Word file

Click the **Open a print file** button  on the Mailer window objects bar, in order to use a single Microsoft® Word file as Mailer carrier.  
The **Text file option** window will be displayed.

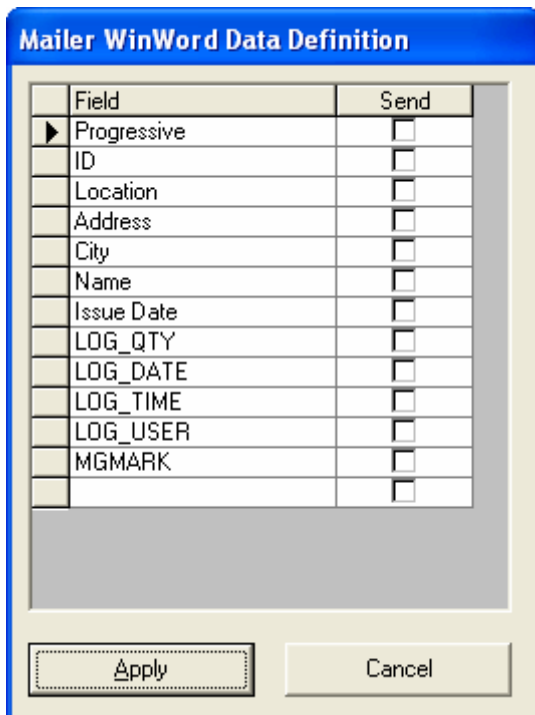


**Fig. 3.9: Text file option window.**

In the **Field type** combo box, select the **Fixed** option.



To select which table fields have to be printed on the Mailer carrier Word file, check mark the **Send** box aside the related **Field** box and click on the **Apply** button.



**Fig. 3.10: Carrier layout fields.**

To select the Mailer carrier Word file click on the **Browse** button.

The file extension can also be DCL (Data Control Language format). Using this language syntax, the text and objects to insert into the Mailer carrier can be defined only with their parameters without displaying them.

The chosen file and its path will be shown in the **Fix file to load** box.

Click on the **Apply** button and the file name will be display above the Mailer carrier layout.

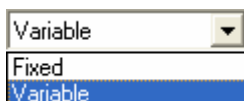
To print a carrier for testing purpose, Click the **Print a test paper** button



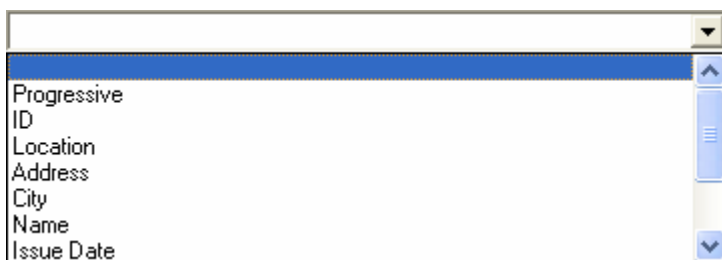
## Paragraph 3.4 – Variable carrier

To print a variable Microsoft® Word file as Mailer carrier, connect the card job to a database as shown in Paragraph 4.2; then click the Mailer button on the tool bar and the Mailer window will be displayed.

To use a variable Mailer carrier layout, click the **Open a print file** button  on the objects bar and the **Text file option** window will be displayed; then select the **Variable** option into the **Field Type** combo box.



Select the field containing the names of the Word files to print into the **Variable Field** box.



Insert where the Word files to print are saved into the **Variable File Path** box, or **Browse** it by clicking the button near the box; then Select the file format into the **File Extension** box and click on the **Apply** button.

The files extension can be DOC (Word format), TXT (Text only format) or DCL (Data Control Language format).

If the files path and extension is already written in the selected database field, together with the names, there's no need to insert them in the related Variable File Path and File Extension boxes.

The other options are the same as for the single Word file.

When all the options are inserted, click on the **Apply** button in the Mailer window.

## Paragraph 3.5 – Mailer options

To set the Mailer functions, select the **Options** command from the **Options** menu and click on the **Mailer** tab into the **Production Options** window.

The screenshot shows the 'Production Options' dialog box with the 'Mailer' tab selected. The dialog has a blue title bar and several tabs: 'SmartCard', 'Logs', 'ReadBack', 'Various', 'Enc/Emb', 'Thermo', and 'Mailer'. The 'Mailer' tab is active, showing various settings. Under the 'Mailer' section, there are fields for 'Chip Offset', 'Barcode Offset', 'Label Start', and 'Label Offset', all of which are italicized. There is a checkbox for 'Folder present'. Below this, there is a checked checkbox for 'Check paper barcode'. Under this, there are two columns of settings for 'BarCode #1' and 'BarCode #2 (optional)', each with a dropdown menu, a 'Read from char' field, and a 'Lenght in chars' field. Below this, there is a checkbox for 'Use card family' and two dropdown menus for 'Get Family Id number from:' and 'Get number of cards from:'. At the bottom, there is a 'Printer settings' section with a 'Printer:' dropdown menu showing 'hp LaserJet 1300 PCL 6', a 'Paper type:' dropdown menu showing 'A4', and a 'Max Sheets on machine' field showing '4'. At the very bottom are 'OK' and 'Cancel' buttons.

**Fig. 3.11: Mailer options.**

Into the Mailer tab, some parameters can have three different statuses. When a parameter is displayed with the italic font style, it means that is considered the default firmware setting. When a parameter is displayed with the regular font style, it means that is not activated. When a parameter is check marked, it means that is considered the inserted setting.

To avoid wrong adjustments, don't digit any value in the following boxes: **Chip Offset**, **Barcode Offset**, **Label Start** and **Label Offset**.

When a Folder machine is present after the Mailer, check mark the **Folder present** option.

To enable the control of the barcode printed on the Mailer carrier, check mark the **Check paper barcode** option. This function is compulsory to avoid any mismatch with the card.

Select the connected table field to match with the barcode data, into the **BarCode #1** combo box; the barcode data field must be univocal as with the \$CARDID field, to guarantee the check barcode control.

To determine from which character position of the selected field start matching the read barcode data, digit the position value into the **Read from char** box; selecting the \$CARDID field, this value must be 2.

Digit into the **Length in chars** box the value representing how many characters must be matched, beginning from the Read from char value; selecting the \$CARDID field, this value must be 5.

If the Check Double Barcode option is enabled in the Mailer Advanced Setup (see Appendix A), the Mailer tab will display a **BarCode #2** combo box with the same functions of the BarCode #1 combo box; this check is needed in case of Mailer carrier stocks verification.

To consider a series of cards as belonging to the same family, check mark the **Use card family** option; this function is useful when more than one card has to be attached to a specific Mailer carrier.

Select, into the **Get Family Id number from** combo box, the connected table field containing the same data for each record of the same cards family.

Select, into the **Get number of cards from** combo box, the connected table fields containing the value representing how many cards of this family had to be attached to the related Mailer carrier; if this value exceed the job defined number of attached cards to a single carrier (see Paragraph 3.1), MatiCard automatically will attached the job defined number of cards to the first carrier and the remaining cards to next carriers, always printing the same carrier layout and respecting the job defined cards.

For example, if the job defined number of attached cards is 3 and the group is composed by 8 cards, MatiCard will attach three cards to the first carrier, three cards to the second carrier and two cards to the third carrier, always printing the same layout for all the three carriers.

Select the **Printer** of the Mailer carrier into the related combo box.

Select the Mailer **Paper type** into the related combo box; the available carrier formats are: A4 and Letter (the Legal format is not yet available).

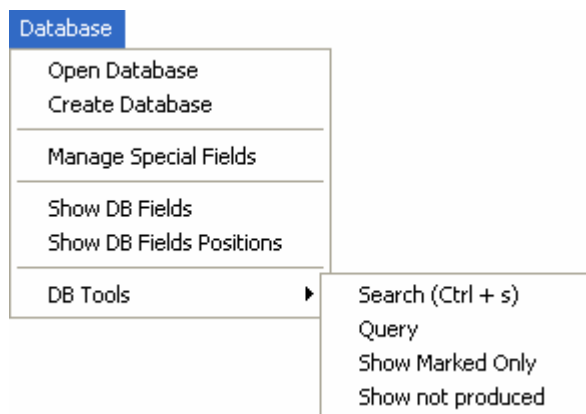
To set the maximum number of carrier managed by the Mailer buffer at the same time, digit the value into the **Max Sheets on machine** box; this value is 2 for the MS10 Mailer system and is 4 for the MS20 Mailer system.

After setting the desired options, click on the **OK** button into the **Production Options** window.

## Chapter 4 – Database management

MatiCard can fully manage the connected database; this function allows using the fields in a very versatile modality, also creating desired new fields starting from the original ones.

The commands to manage the database connection are in the Database menu.

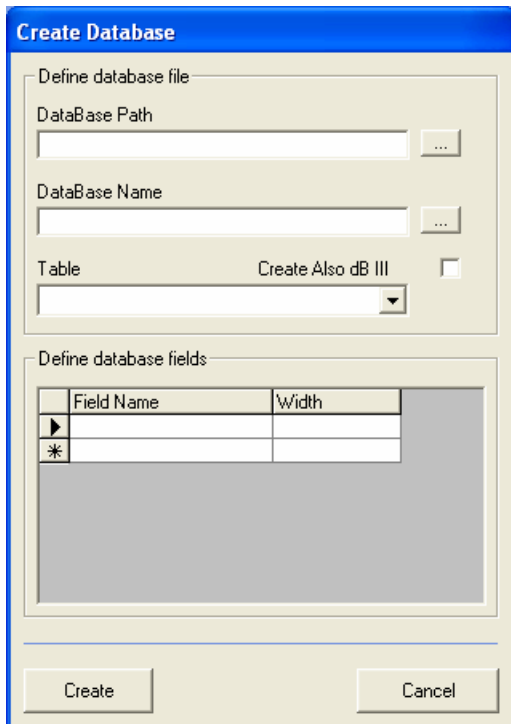


These are the MatiCard main functions with databases:

- Create a new database with the desired number of tables, fields and records.
- Open an existing database, created with the most common formats.
- Show each record of the database with all its fields.
- Find a specific record searching its fields.
- Make queries using data criteria.
- Mark records and show only them.
- Show only not produced records.
- Create counters.
- Combine different fields or fix and variable data.
- Create sub fields.
- Create external fields link.

## Paragraph 4.1 - Creating a database

To create a new database, select the **Create Database** command from the **Database** menu. In this way the **Create Database** window will be displayed.



**Fig. 4.1: Create Database window.**

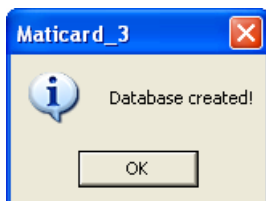
Insert the directory where to create the database into the **DataBase Path** box or browse it clicking the button aside the box.

Insert the name of the database to create into the **DataBase Name** box or browse it clicking the button aside the box.

Insert the name of the database **Table** into the related box.

Insert the table first **Field Name** and **Width** on the row marked with an arrow into the **Define database fields** box; to insert other table fields, click on the row marked with an asterisk.

When the database is completed, click on the **Create** button and a confirmation window will be displayed.

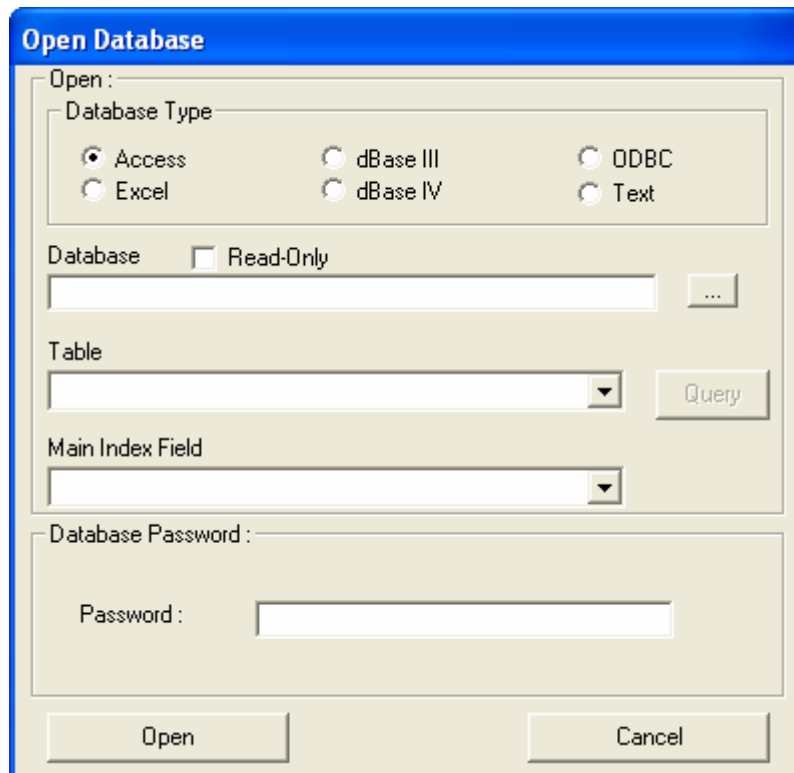


**Fig. 4.2: confirmation window.**

The database is created in Access MDB format; it can be also created in DBF format check marking the **Create Also dB III** option.

## Paragraph 4.2 - Open a database

To open a database, select the **Open Database** command from the **Database** menu. In this way the **Open Database** window will be displayed.



**Fig. 4.3: Open Database window.**

Select the **Database Type** check marking the right option in the related box.

If the Access format is selected, the window will display a **Password** box, while if the ODBC format is selected, the window will display a **User ID** and a **Password** boxes; in fact these kinds of databases could need those information to be opened.

Insert in the **Database** box the name of the database to open with its path, or browse it clicking the button aside the box.

If the chosen database is a **Read-Only** file, the related option won't be available; while if the file isn't read only, the option could be check marked. If the option is marked, the database cannot be changed; while if the option isn't marked, the database records can be written and modified with the Show DB Fields command (see Paragraph 4.3).

Select the database **Table** into the related combo box.

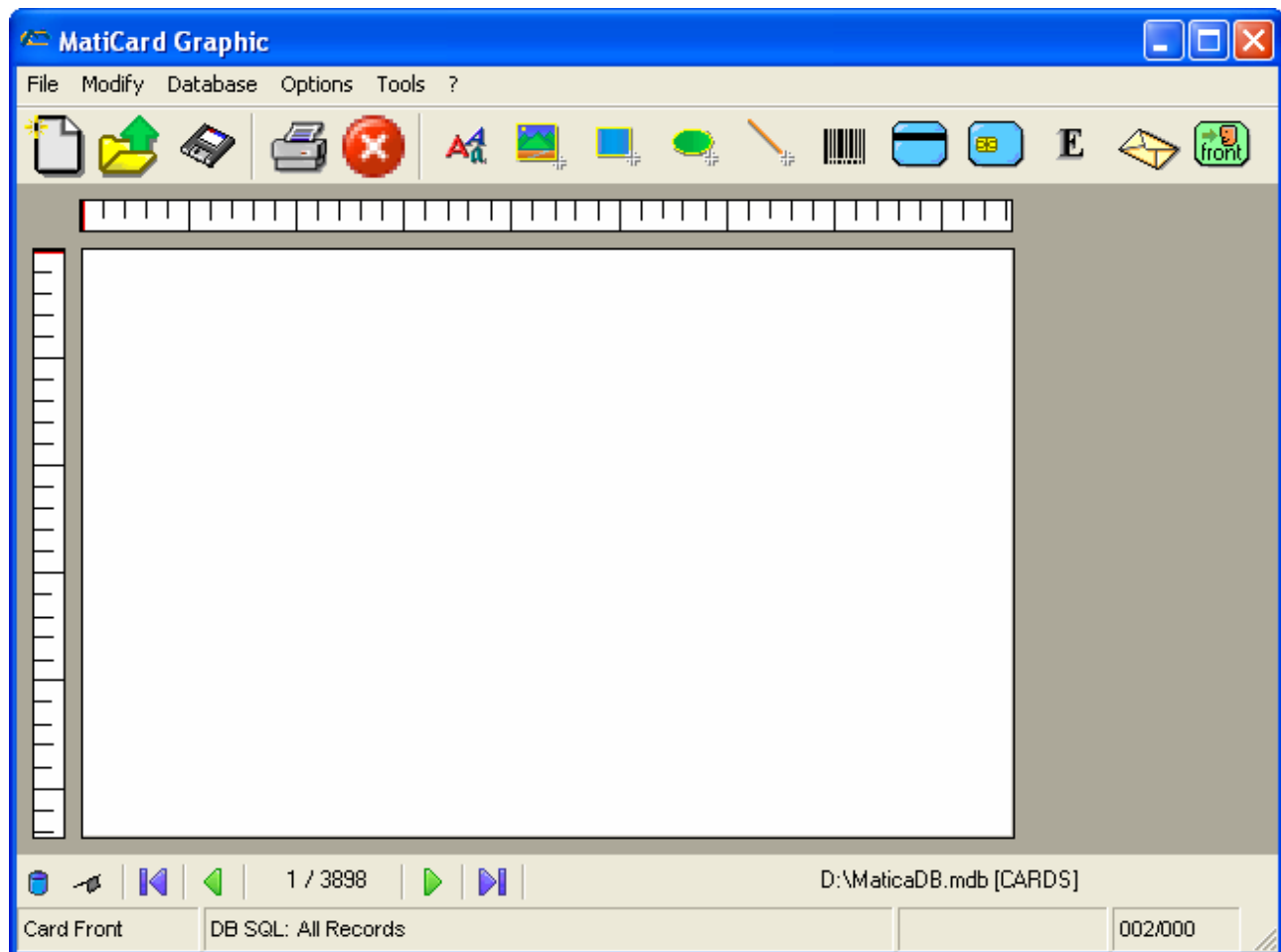
To know the function of the **Query** button, see Paragraph 4.5.

The **Main Index Field** combo box defines a primary key in order to use the Database Checks functions (see Paragraph 5.7).

Click on the **Open** button to connect the database to the MatCard job.




When a job is connected to a database, the MatiCard main window will displayed the name and path of the database and also new functions.





**Fig. 4.4: Job connected with a database.**


The new functions are related to the database table fields.


**Show Db** button  repeats the Show DB Fields command from the Database menu (see paragraph 4.3).

If the **UnMarked Field** button  is present, see paragraph 4.6.


**First record** button  shows the job related with the first record of the database table.

**Last record** button  shows the job related with the last record of the database table.

**Previous record** button  shows the job related with the previous record of the database table respect to the current one.

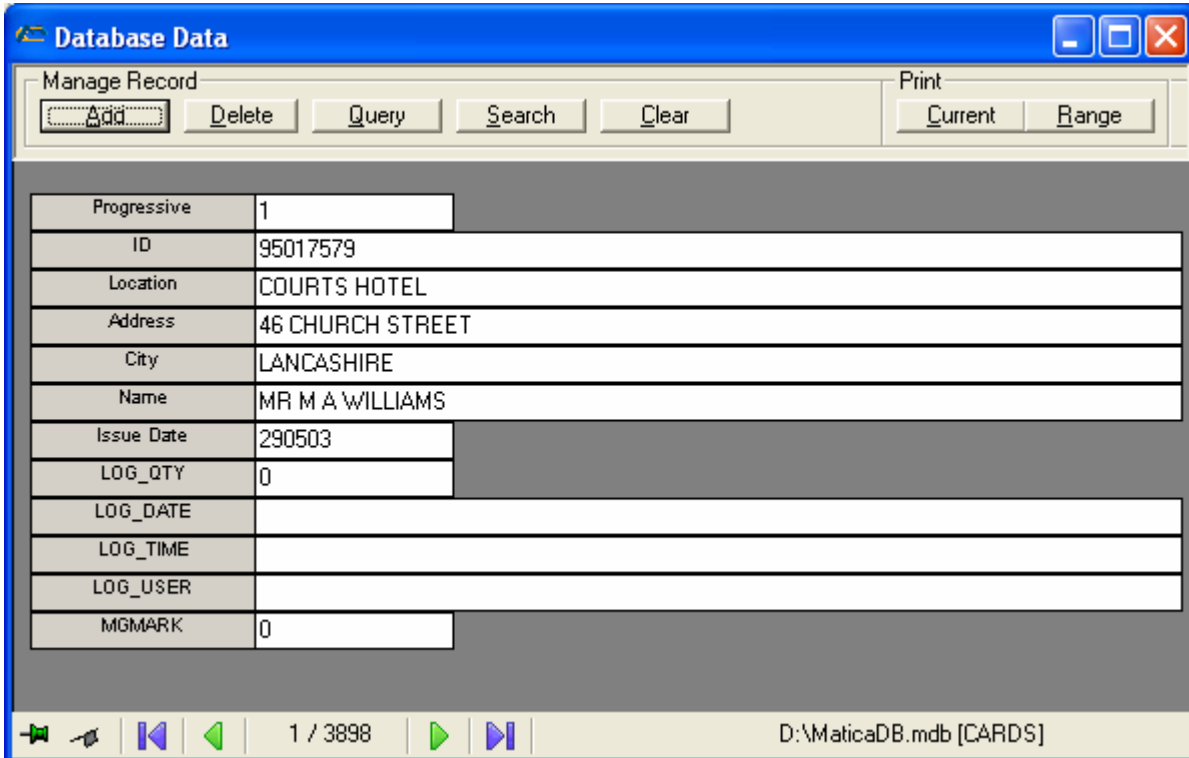
**Next record** button  shows the job related with the next record of the database table respect to the current one.

## Paragraph 4.3 – Show database fields

To see the connected database table fields, click the **Show DB** button  or select the **Show DB Fields** command from the **Database** menu.

In this way the **Database Data** window will be displayed.

This window shows all the table records with theirs data into the related fields.






The screenshot shows the 'Database Data' window with a blue title bar. Below the title bar is a 'Manage Record' section with buttons: 'Add', 'Delete', 'Query', 'Search', and 'Clear'. To the right is a 'Print' section with 'Current' and 'Range' buttons. The main area contains a form with the following fields and values:

Progressive	1
ID	95017579
Location	COURTS HOTEL
Address	46 CHURCH STREET
City	LANCASHIRE
Name	MR M A WILLIAMS
Issue Date	290503
LOG_QTY	0
LOG_DATE	
LOG_TIME	
LOG_USER	
MGMARK	0


At the bottom is a status bar with navigation icons, a page indicator '1 / 3898', and the file path 'D:\MaticaDB.mdb [CARDS]'.

Fig. 4.5: Database data window.

In the window status bar, there are all the buttons  to browse the records as described in Paragraph 4.2.

There are also the **Stay on top**  and possibly the **UnMarked Fields**  buttons.

The Stay on top button fixes the Database Data window over any other one.

After clicking the button, its picture changes ; to disable this function, click again on the Stay on top button and the picture will return as before.

The UnMarked Fields button is described in Paragraph 4.6.

If the database is not a read only file, the data into the fields can be modified or deleted just clicking on them.

To **Add** a record, click the related button.

To **Delete** the current record, click the related button.

To make a **Query**, click the related button and see Paragraph 4.5.

To make a **Search**, click the related button and see Paragraph 4.4.

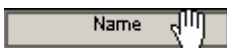
To **Clear** all the data in the current record, click the related button.

If the database is a read only file, the Add, Delete and Clear buttons won't be available.

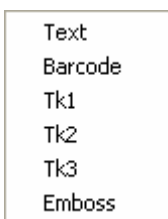
To print the job with the **Current** record data or with the data of a particular records **Range**, click the related button and the **Print Options** window will be displayed (see Paragraph 1.4).

If the **Set Printer on Direct Printing** option in the **Advance Parameters** window is check marked (see Paragraph 5.2), clicking on the Current or Range button will always display the Print Options window; otherwise clicking on the Current button will print directly the job.

To insert a variable data directly on the job, drag and drop the related field box in the desired position.



In this way, a box will be displayed containing all the available personalization.



Select the desired personalization regarding the data inserted and the related options window will be displayed.

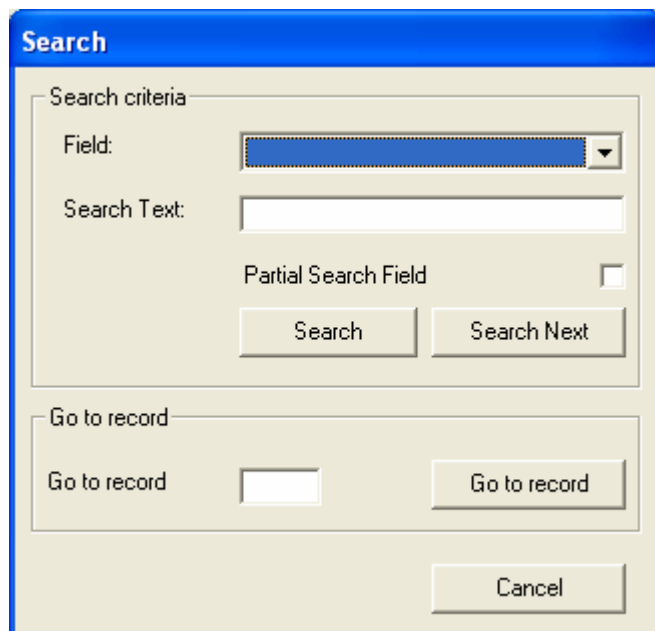
When all the options are inserted, click on the Apply button and the card job layout will display the chosen field data.

To see only the position of the inserted fields, check mark the **Show DB Fields Positions** command from the **Database** menu and the job layout will show the symbol <.> instead of the data; to display again the fields data uncheck the command.

## Paragraph 4.4 – Records search

To search records into a database, select the **Search** option of the **DB Tools** command from the **Database** menu or click the **Search** button into the **Database Data** window.

**Search** window will be displayed.



**Fig. 4.6: Search window.**

Select the field where to search into the **Field** combo box.

Insert the text to search into the **Search Text** box.

If the inserted text is not exactly the one into the field but it's only a part of it, the **Partial Search Field** option must be check marked and the inserted search text must be preceded or followed by an asterisk.

The asterisk must precede the inserted search text if the remaining part of the data is before this text, while it must follows the inserted search text if the remaining part of the data is after this text.

The asterisk could also be in the middle of the inserted search text or simultaneously after, before and in the middle of the inserted search text, depending on where the remaining part of the data should be.

To **Search** a record with the inserted criteria, click on the related button.

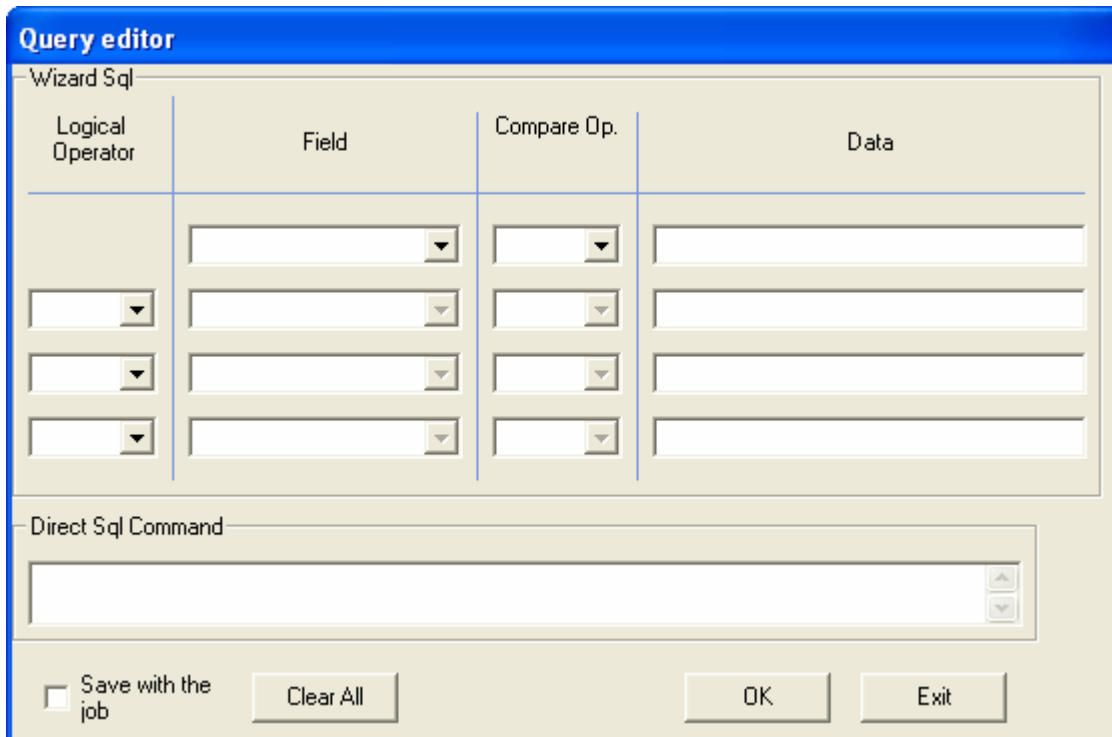
To **Search Next** record with the inserted criteria, click on the related button.

To show a specific record, insert the record number into the **Go to record** box and click on the **Go to record** button.

## Paragraph 4.5 – Records query

To make records query into a database, select the **Query** option of the **DB Tools** command from the **Database** menu or click the **Query** button into the **Database Data** window.

**Query editor** window will be displayed.



**Fig. 4.7: Query editor window.**

The query editor uses the Structured Query Language (SQL).

Select the field where to make the query into the **Field** combo box.

Select the **Compare Operator** into the related combo box.



The compare operators available in the Wizard Sql are: LIKE, equal to (=), more or less than (<>), less or equal than (<=), more or equal than (>=), less than (<) and more than (>).

Insert the data used as criterion by the query into the **Data** box.

The data inserted must be exactly as the ones present into the selected field; only the LIKE operator allows inserting only a part of the data and using the asterisks as described for the Search Text in Paragraph 4.4.

If more than one criterion is requested, select the **Logical Operator** in the related combo box; then insert the other field, compare operator and data criterion. The maximum criteria allowed into the **Wizard Sql** are four.



The logical operators available in the Wizard Sql are: AND, OR, AND NOT and OR NOT.

Using the AND logical operator, the query satisfies the two criteria before and after the operator.

Using the OR logical operator, the query satisfies at least one of the two criteria before and after the operator.

Using the AND NOT logical operator, the query satisfies the criterion before the operator and the opposite of the criterion after the operator.

Using the OR NOT logical operator, the query satisfies the criterion before the operator or the opposite of the criterion after the operator.

Into the **Direct Sql Command** box can be written the desired criterion directly with the structured query language.

To delete all the criteria inserted, click on the **Clear All** button.

When all the criteria have been inserted, click on the **OK** button; in this way the Database Data window will show only the records satisfying the query and only these records can be displayed on the job and printed.

If the **Save with the job** option is check marked, the query criteria will be saved closing the job; so when the job is opened again, the job will display only the records that satisfies the query and not all the records.

## Paragraph 4.6 – Other DB Tools

### Show not produced

If a determined field is present in the connected database table, when the machine print a specific job, MatiCard automatically increase the related record field value of one numeric unit (from 0 to 1, from 1 to 2 and so on).


This function is available only if the **Log Text in DB** option is activated, and if the related field will be selected into the Quantity combo box of the Log Data Fields Definition window (see Paragraph 5.7).


To display only the records jobs having this determined field records with value 0, select the **Show not produced** option of the **DB Tools** command from the **Database** menu.

This tool is useful to be print only the records not produced before.

### Show marked only

If a numeric field named **MGMARK** is present in the connected database table, the **Show marked only** option of the **DB Tools** command from the **Database** menu becomes available.

If this option is available, the **UnMarked Field** button  will be displayed in the MatiCard main window and in the Database Data window; clicking on this button, changes the MGMARK field value of the current record from 0 to 1.

The UnMarked Field button has different aspect  and denomination (**Marked Field**) if the MGMARK field value of the current record is 1,; clicking on this button changes the MGMARK field value of the current record from 1 to 0.

To display only the records having the MGMARK fields with value 0, select the **Show marked only** option of the **DB Tools** command from the **Database** menu.

This tool is useful to print part of the connected database records.  
It could be created also a program that changes automatically the MGMARK value, following a particular criterion based on the production needs.

## Paragraph 4.7 – Counter fields

To insert a counter on the job, select the command **Manage Special Fields** from the **Database** menu and click on the **Counter** tab into the **Special Fields** window.

Insert the counter **Name** into the related box.

Select into the **Type** combo box the **Local** option, if the counter is linked to a single specific job, or the **Global** option, if the counter is linked and updated with any job opened.

To modify a counter on the job, check mark the related **Mod** option.

Digit the **Start** value of the counter into the related box.

Digit the **Step** value of the counter into the related box (i.e. if the start value is 1 and the step value is 1, the next values will be 1, 2, 3 and so on).

Digit the counter length value, measured in characters, into the **Len** box.

Digit the **Fill** characters of the counter into the related box (i.e. if the length is 5 and the fill is 0, the counter number 1 will be displayed as 00001).

Digit the **Current** value to display on the job into the related box.

Name	Type	Mod	Start	Step	Len	Fill	Current
Meter	Local	<input checked="" type="checkbox"/>	1	1	5	0	00001
*		<input type="checkbox"/>					

**Fig. 4.8: Counter tab.**

When all the values are inserted, click on the **OK** button; the counter is added to the connected table fields and it will be displayed selecting the Show DB Field command (see Paragraph 4.3). The counter will be also present into the variable text combo boxes, even with no database connection.

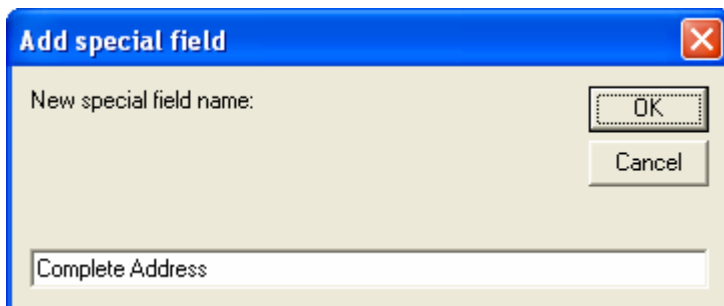
The counter is not related to the records but to the cards produced (i.e. if a records range is printed twice, the second card produced will have the same record data of the first but the counter will be 2 instead of 1).



## Paragraph 4.8 – Special fields

To combine different fields and also fixed and variable data together, select the command **Manage Special Fields** from the **Database** menu and click on the **Specials** tab into the **Special Fields** window.

Click the **Add** button and the **Add special field** window will be displayed. Digit the **New special field name** into the related box and click on the **OK** button.



**Fig. 4.9: Add special field window.**

Select the created special field name into the **Elements** box of the **Specials** tab.

Select the first field to combine into the **Element** combo box, then digit into the **Pos** box the value representing from which character position of the new special field start inserting the first field.

Now click into the following line marked with the asterisk; then chose the second element to aggregate to the first one; this element could be a second field selected into the **Element** combo box or a fixed text inserted into the **Text** box.

Specify into the **Pos** box, also for this second element, the value character position of the new special field from which start inserting the second field or the fixed text.

If the **Pos** box value is 0, the related **Element** will be contiguous to the next one without any blank space between them.

This procedure can go on until the desired number of different elements, both fields and fixed texts, will be combined in a single special field.

The text field could also have just a blank space (HEX 20) between the previous and the next element.

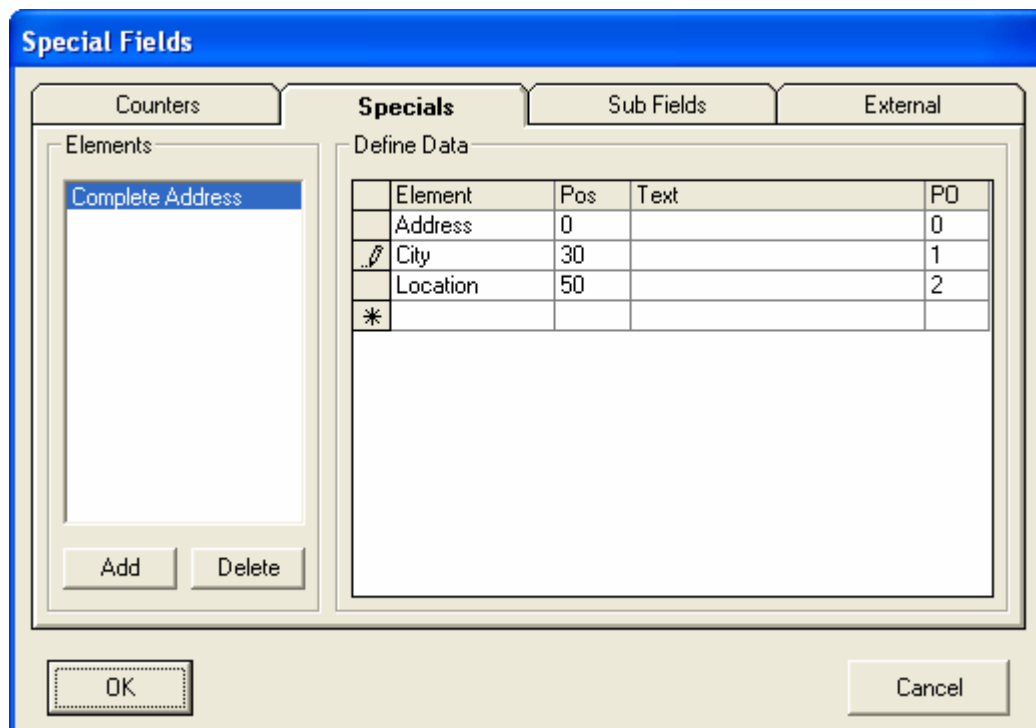
If an element finishes before the beginning of the next one, the special field adds automatically spacing characters (HEX 20) between the two elements.

If an element starts before the ending of the previous one, the special field deletes automatically the exceeding character of the previous element.

Put in the same element a field and a fixed text is not allowed.

Passing from one element to another one, the **PO** box will increase of one unit starting from 0; so for the first element the PO will be 0, for the second will be 1 and so on.

This box determines the elements insertion order into the special field; this default order can be changed just digit the desired position order value of the elements in the related PO boxes.



	Element	Pos	Text	PO
	Address	0		0
	City	30		1
	Location	50		2
*				

**Fig. 4.10: Specials tab.**

When all the elements are inserted, click on the **OK** button; in this way the new special field will be displayed selecting the Show DB Field command (see Paragraph 4.3).

The special field will be also present into the variable text combo boxes. If the special field has only fixed text elements or if regarding default fields as \$DATE or \$TIME, it will be present into the variable combo boxes even with no database connection.

## Paragraph 4.9 – Sub fields

To manage only a part of a field or to split a field into different subfields, select the command **Manage Special Fields** from the **Database** menu and click on the **Sub Fields** tab into the **Special Fields** window.

Insert the sub field **Name** into the related box.

Select into the **Source Field** combo box the field from which to create the sub field.

Digit into the **Start** box the value representing from which character position of the source field start creating the sub field.

Digit in the **Length** box the value representing of how many characters the sub field is composed, beginning from the start value.

Name	Source Field	Start	Length
ID first part	ID	1	4

**Fig. 4.11: Sub Fields tab.**

When all the settings are inserted, click on the **OK** button; in this way the sub field will be displayed selecting the Show DB Field command (see Paragraph 4.3).

The sub field will be also present into the variable text combo boxes, even with no database connection if regarding default fields as \$DATE or \$TIME.

## Paragraph 4.10 – External fields

To link a field to an external program, select the command **Manage Special Fields** from the **Database** menu and click on the **External** tab into the **Special Fields** window.

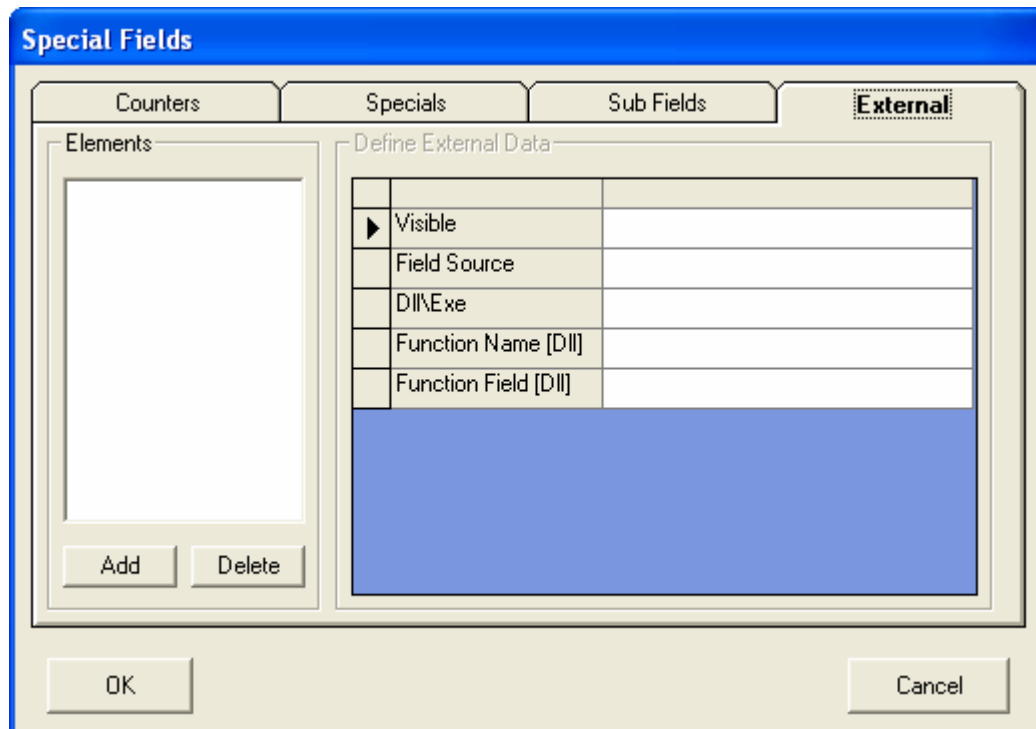


Fig. 4.12: External tab.

Click the **Add** button and the **Add external field** window will be displayed.

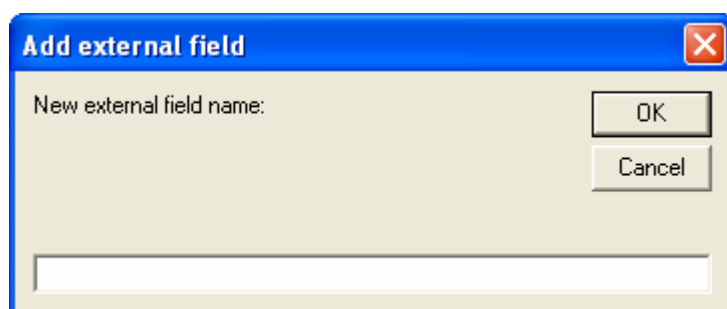


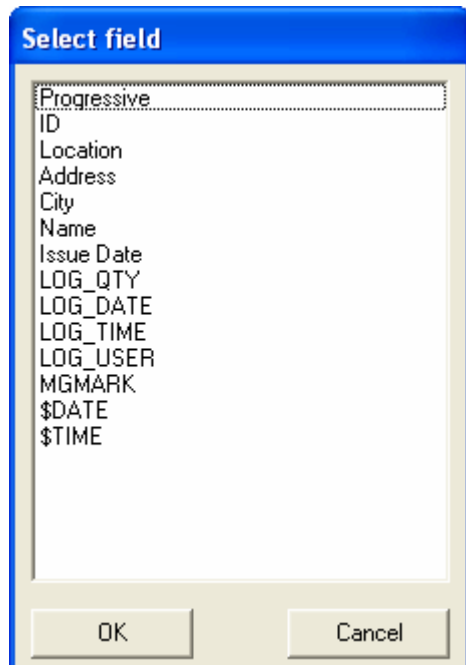
Fig. 4.13: Add external field window.

Digit the **New external field name** into the related box and click on the **OK** button.

Select the created external field name into the **Elements** box of the External tab.

Double click on the **Visible** box and select **True** to display the external field data or **False** to display the source field data.

Double clicking on the **Field Source** box, the **Select field** window will be displayed.



**Fig. 4.14: Select field.**

Select the field to link to the external program in order to get the external field data and click on the **OK** button.

Double click into the External tab on the **DII\Exe** box, then browse the external program to which send the source field and from which receive the external field data.

If the external program is a DLL file, digit the name of the function in the **Function Name [DII]** box; if it's an EXE file, it's not necessary.

Into the **Function Field [DII]** box can be specified other parameters requested by the external program.

When all the settings are inserted, click on the **OK** button; in this way the external field will be displayed selecting the Show DB Field command (see Paragraph 4.3).

The external field will be also present into the variable text combo boxes, even with no database connection if regarding default fields as \$DATE or \$TIME.

If there are link errors with the external program or it doesn't work, the external field displayed on the job will be the source field.

## Chapter 5 – Options and preferences

MatiCard offers a series of options and preferences in order to personalize various aspects about the configuration of the machines and theirs modules.

The commands to manage this options and preferences are in the Options menu.

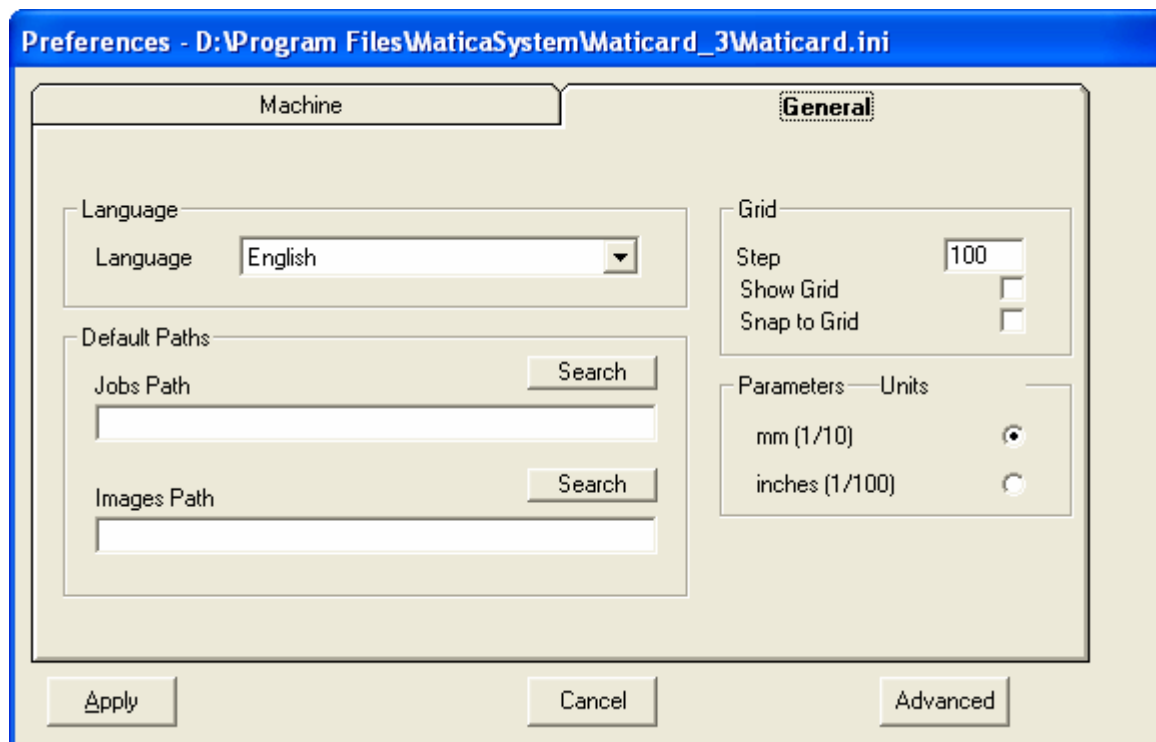


These are the MatiCard main options:

- Job grid, orientation, background image and unit measure.
- Magnetic tracks read back modality.
- Report log file management.
- Smart card readers activation.
- Encoder coercivity.
- Embosser text conversion.
- Tipper activation, pressure and temperature.
- Thermal printer ribbon, printing side, contrast, quality and cleaning cycles.
- Mailer settings (see Paragraph 3.5).
- Error recovery modality.
- Machine configuration.
- Communication settings.
- Default jobs path, images path and language.

## Paragraph 5.1 – Preferences

Select the **Preferences** command from the **Options** menu in order to set the machine configuration, the communication settings, the default paths, the language, the unit measure and the job grid; the **Preferences** window will be displayed.



**Fig. 5.1: Preferences window.**

Into the Preferences window title bar, is specified the name and path of the INI file where the inserted preferences are stored.

To set the **General** preferences select the related tab.

Select the MatCard **Language** into the related combo box; the available default languages are English and Italiano.

To customize a language, open the MG\_English.lng file into the MatCard directory with a word processor (for example Notepad) and change all the labels, starting from the LANGUAGE one, with the desired names; then save this file in the same directory with the name of the desired language preceded by MG\_ and with the LNG extension.

In this way, when the Language combo box is selected, it will be displayed also the name of the LANGUAGE label saved.

To set the default directory to open when the Open button on the tool bar is selected, digit the directory path into the **Jobs Path** box or browse is with the **Search** button aside the box.

To set the default directory to open when the Image button on the tool bar is selected, digit the directory path into the **Images Path** box or browse is with the **Search** button aside the box.

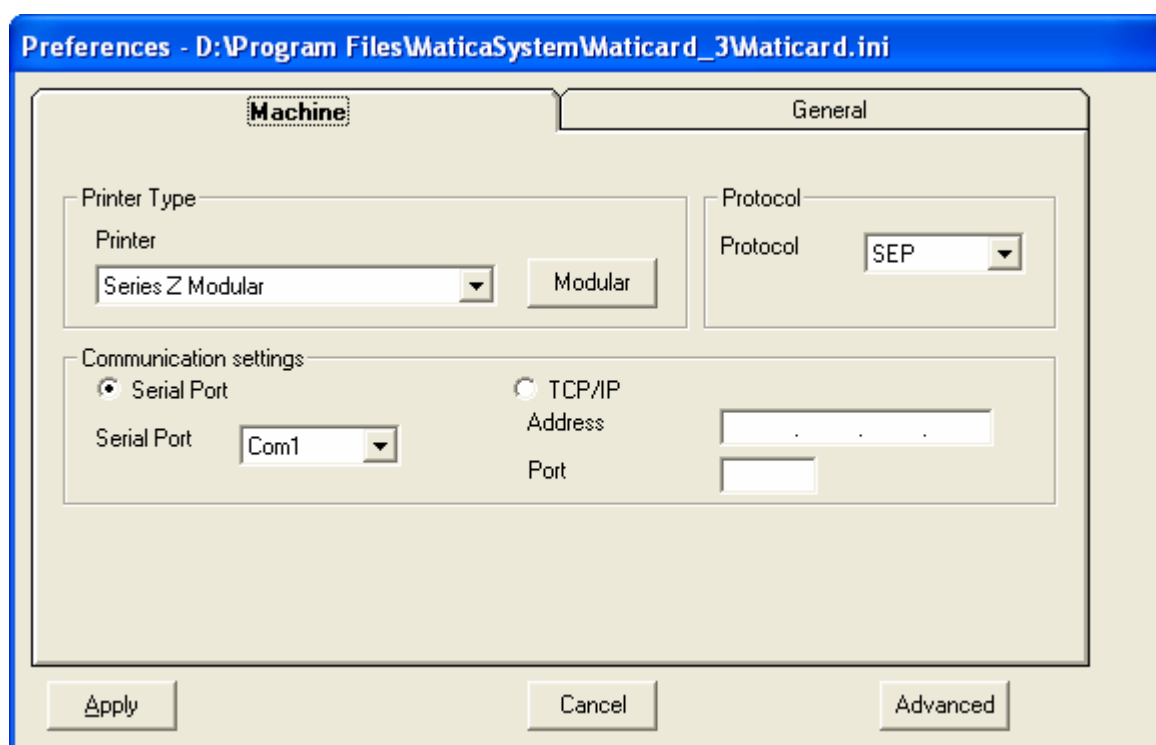
To display a grid on the job, check mark the **Show Grid** option.

To set the distance between two grid points, digit the value into the **Step** box.

To move the inserted objects from one point of the grid to another one, check mark the **Snap to Grid** option.

To set the default unit measure, select the **mm (1/10)** option representing the tenth of millimeters or the **inches (1/100)** option representing the hundredth of inches.

To set the **Machine** preferences select the related tab.



To set the machine, select the desired **Printer** type into the related combo box; the available printers types are: Series Z, Metal C400, Metal C320, Metal C410, Series Z Modular, Matica Chica and Matica Chica Plus.

Depending on the chosen printer, some functions and settings changes in this window and also in other ones (for example the Production Options window).

When the Matica Chica or Matica Chica Plus printers are selected, the **USB connection** option will be displayed; check mark this option if the printer is connected to an USB port.

When the Series Z Modular is selected, the **Modular** button is displayed; click on this button to configure the machine module and the **Setup modular machine** window will be displayed.



Select into the **Module 1** combo box the first module and automatically the window will display another combo box, under the first one, to select the next module; go on until the machine configuration is completed.

The available modules are: Encoder, MultiSmartCard, Thermo, Embosser, Tipper and Mailer.

If the **Thermo** module is selected, the window will display a combo box aside the module, where to select the Thermo module communication port.

The modules can also be selected not observing the production order, but respecting anyway the modules typology and the quantity of each module type into the machine. The only tie is that the Mailer, if present, must always be the last selected module.

Into the **Communication Settings** area check mark the communication used. Checking the **Serial Port** option must be select the port used by the chosen printer, into the related combo box; there will be displayed only the com ports automatically detected by the system.

Checking the **TCP/IP** option must be specify the **Address** and the **Port** used by the chosen printer, into the related boxes.

This area box won't be displayed choosing the Matica Chica or the Matica Chica Plus printers.

Select the communication **Protocol** used by the chosen printer into the related combo box.

Choosing the **Metal C400** or the **Metal C320** printers, the only available protocol will be XON-XOFF, while choosing the **Series Z Modular** printer, the only available protocol will be SEP.

Choosing the **Series Z** printer, there will be two available protocols: XON-XOFF and CHIP; the XON-XOFF must be selected with the standard configuration, otherwise the CHIP protocol must be selected when the single chip is mounted on the Encoder module or in case of readback modality.

Choosing the **Metal C410** printer, there will be three available protocols: SEP, XON-XOFF and CHIP; the SEP must be selected with the standard configuration, the XON-XOFF must be selected in case of backward compatibility needs, while the CHIP is not used.

The Protocol combo box won't be displayed choosing the **Matica Chica** or the **Matica Chica Plus** printers.

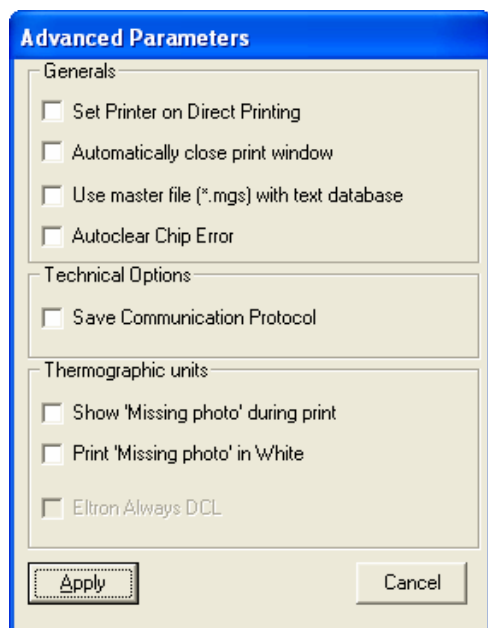
Selecting the Series Z, the Metal C400, the Metal C320 or the Metal C410 printers, the option **Printer Driver ('MATICA')** will be displayed; choosing this option, MatiCard will send the printing data to a driver and not directly to the com port.

Check marked this option and select the Generic / Text Only driver.

After setting the desired preferences, click on the **Apply** button into the Preferences window.

## Paragraph 5.2 – Advanced Parameters

Click on the **Advanced** button into the Preferences window and the **Advanced Parameters** window will be displayed.



**Fig. 5.3: Advanced Parameters.**

Check mark the **Set Printer on Direct Printing** option in order to display the Print Options window, when selecting the Print button on the tool bar or the Current button into the Database Data window.

Check mark the **Automatically close print window** option in order to close the print Status window when the printing is finished.

Check mark the **Use master file (\*.mgs) with text database** option when an advanced use of the text database importation is requested.

Check mark the **Autoclear Chip Error** option in order to continue automatically the card production, when a chip error occurs.

Check mark the **Save Communication Protocol** option in order to create a directory named LOG under the MatiCard directory, where to save a log file with the communication protocol; the name of the log file will be LOGDATA\_date-time.

Check mark the **Show 'Missing photo' during print** option to display a yellow box in the image inserting area, when the related image is not found.

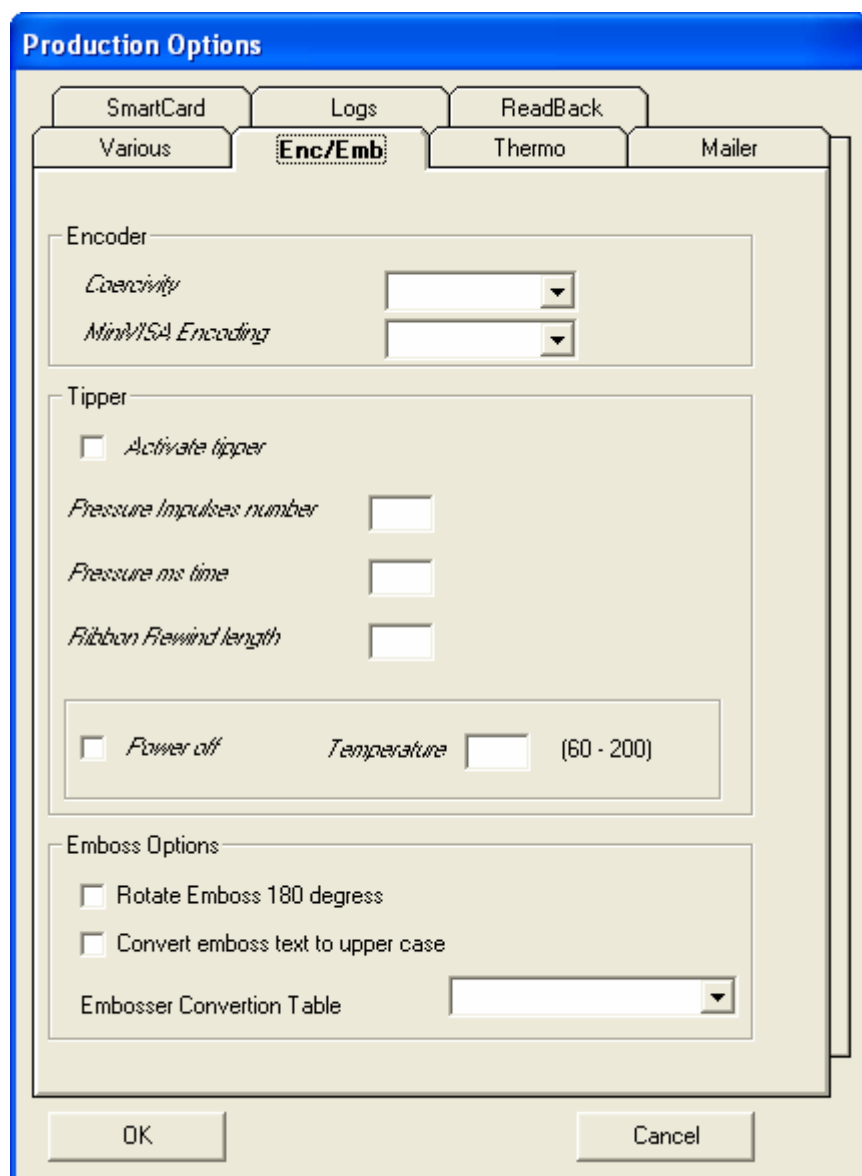
Check mark the **Print 'Missing photo' in White** option to print a white box on the card, instead of a yellow one, in the image inserting area position when the related image is not found.

Check mark the **Eltron Always DCL** option if only the DCL language had to be used to send command to the Elton printer.

After setting the desired advanced parameters, click on the **Apply** button.

## Paragraph 5.3 – Encoding / embossing options

To set the Encoder, Tipper and Embosser functions, select the **Options** command from the **Options** menu and click on the **Enc/Emb** tab into the **Production Options** window.



**Fig. 5.4: Encoder, Tipper and Embosser options.**

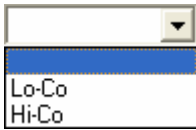
Into the Enc/Emb tab, some parameters can have three different statuses.

When a parameter is displayed with the italic font style, it means that is considered the default firmware setting.

When a parameter is displayed with the regular font style, it means that is not activated.

When a parameter is check marked, it means that is considered the inserted setting.

To determine the Encoder **Coercivity**, click on the related combo box.



The coercivity can be low (Lo-Co) or high (Hi-Co). The coercivity is measured in Oersted (OE); Hi-co can have from 2.500 to 4.200 OE, Lo-co has 300 OE.

To determine the **MiniVISA Encoding**, click on the related combo box.



To enable the MiniVISA Encoding select Yes, otherwise select No.

To enable the Tipper, check mark the **Activate tipper** option.

To disable the Tipper maintaining its temperature, remove the check mark from the Activate tipper option.

To determine the Tipper pad pressure, digit the **Pressure Impulse number** value into the related box.

To determine the dwell time of the Tipper pad over the card, digit the milliseconds unit value into the **Pressure ms time** box.

To determine the **Ribbon Rewind length** between one card tipped and the next one, digit the impulse number value into the related box.

To determine the Tipper **Power off** decreasing its temperature, check mark the related option. To disable the Tipper Power off function, remove the check mark from this option.

To determine the Tipper **Temperature**, digit the degrees value into the related box; if the value is out of the available range (60-200), the box becomes red.

Check mark the **Rotate Emboss 180 degrees** option when the dies are mounted for reverse embossing (only for metal plate personalization).

To emboss all the characters, check mark the **Convert emboss to upper case** option.

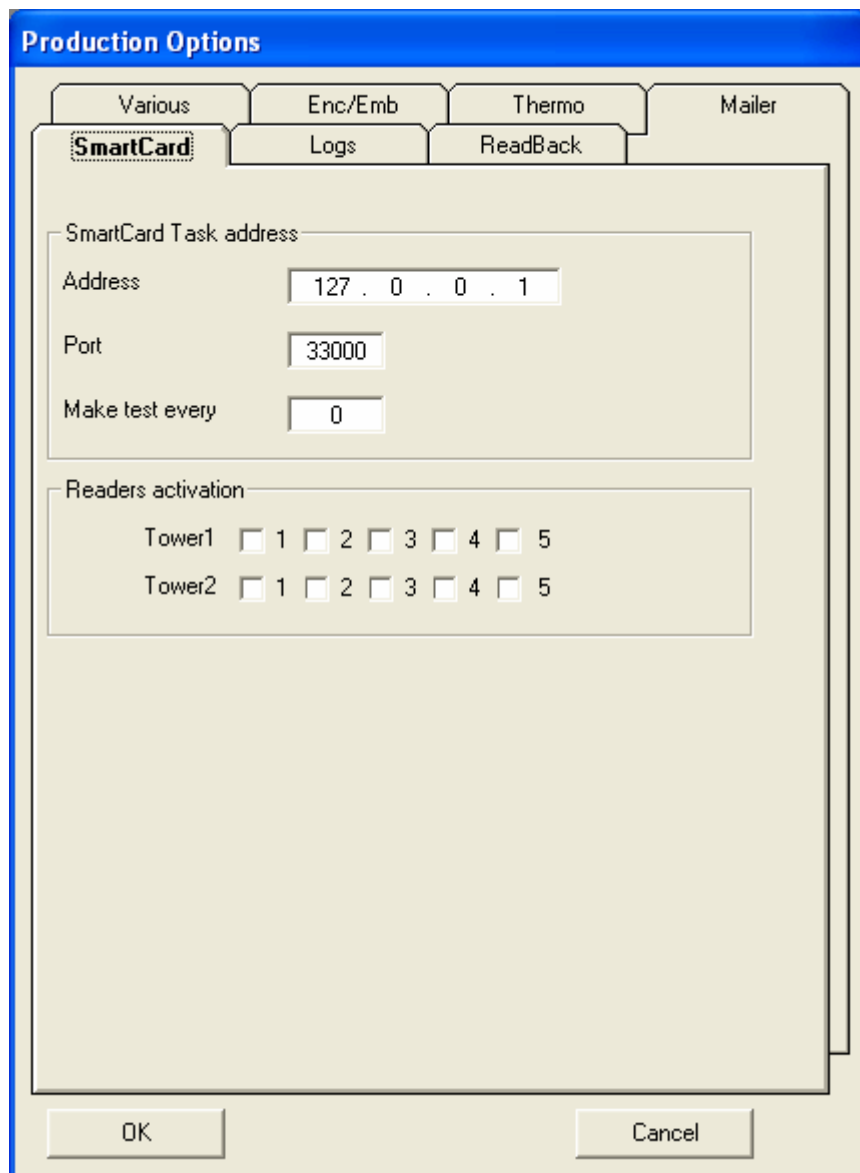
To activate the Farsi character writing modality, select into the **Embosser Conversion Table** combo box the FARSI option.



After setting the desired options, click on the **OK** button into the **Production Options** window.

## Paragraph 5.4 – Smart card options

To set the Multi Chip functions, select the **Options** command from the **Options** menu and click on the **SmartCard** tab into the **Production Options** window.



**Fig. 5.5: Multi Chip options.**

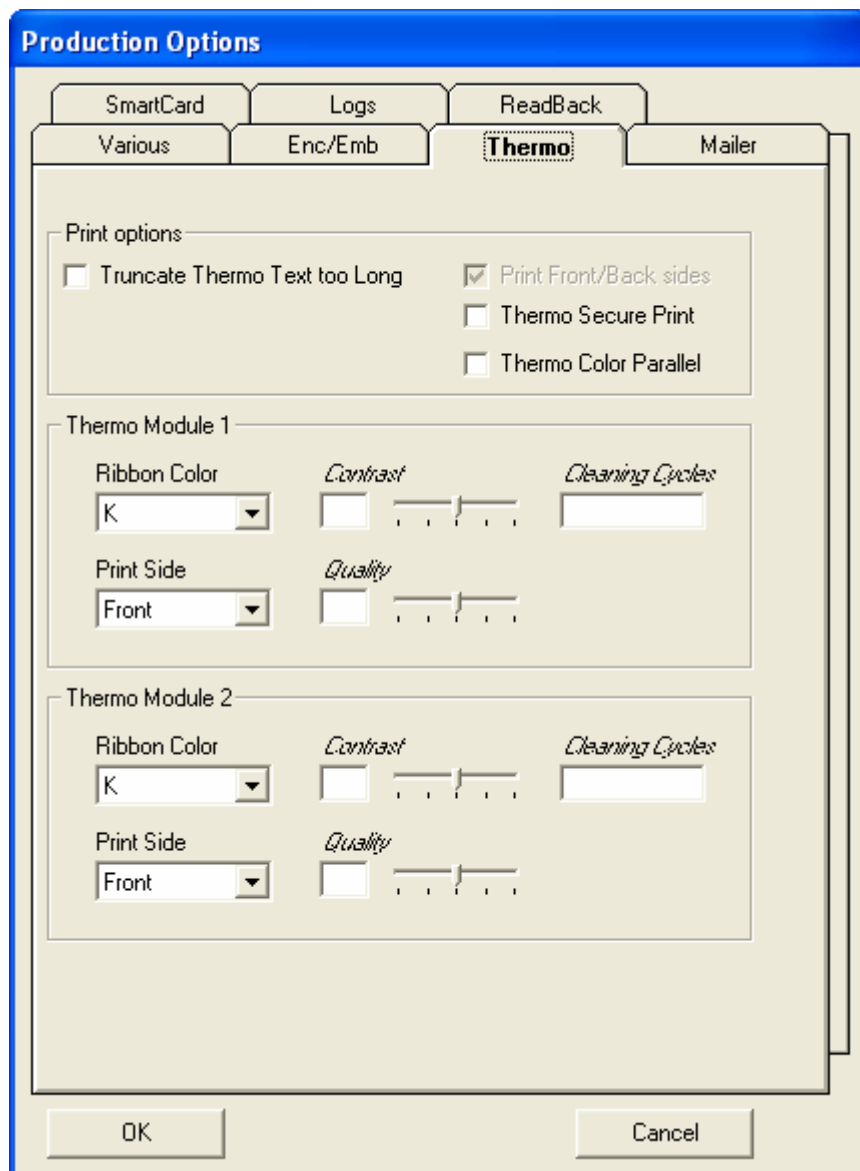
Digit the TCP/IP **Address** and **Port** of the computer, in order to communicate with the Multi Chip module, into the related boxes.

To activate a specific chip reader, check mark the related number option regarding the **Tower1** or the **Tower2**.

After setting the desired options, click on the **OK** button into the **Production Options** window.

## Paragraph 5.5 – Thermal printer options

To set the Thermal printer functions, select the **Options** command from the **Options** menu and click on the **Thermo** tab into the **Production Options** window.



**Fig. 5.6: Thermal printer options.**

Into the Thermo tab, some parameters can have three different statuses.

When a parameter is displayed with the italic font style, it means that is considered the default firmware setting.

When a parameter is displayed with the regular font style, it means that is not activated.

When a parameter is check marked, it means that is considered the inserted setting.

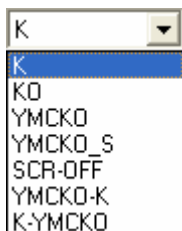
Check marking the **Truncate Thermo Text too Long** option, the Thermal printer text characters, inserted into the job and exceeding the length of the insertion area, won't be displayed and won't be printed; this function is enabled only with variable data.

The **Print Front/Back sides** option is available only with Matica Chica Printer Type preference (see Paragraph 5.1); check marking this option allows the printing on both sides of the card with Duplo printer machine.

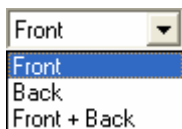
To print the same variable data (text, barcode or image) with two different Thermal printer modules, if present, check mark the **Thermo Color Parallel** option.

Into the **Thermo Module 1** area, it's possible to set the parameters of the first Thermal printer.

To set the ribbon mounted on this Thermal printer, select the desired type into the **Ribbon Color** combo box. The available ribbons are: black (**K**); black and overlay (**KO**); yellow, magenta, cyan, black and overlay (**YMCKO**), yellow, magenta, cyan, black and overlay with short panel (**YMCKO\_S**), scratch-off (**SCR-OFF**); yellow, magenta, cyan, black, overlay and black (**YMCKO-K**); black and yellow, magenta, cyan, black, overlay (**K-YMCKO**).



Select the desired **Print Side** into the related combo box. This function also sets the behavior of the Flip over module mounted before this Thermal printer.



To determine the printing **Contrast** and **Quality** of the black panel, digit the desired value into the related boxes, or move with the mouse the indicating pointer aside them; these options are not related to the color panels.

The suggested contrast value is 10, while the suggested quality value is 1; increasing the quality decreases the production speed.

To determine after how many cards performing the **Cleaning Cycles**, digit the cards number value into the related box; the suggested value is 50 while the maximum value allowed is 999.

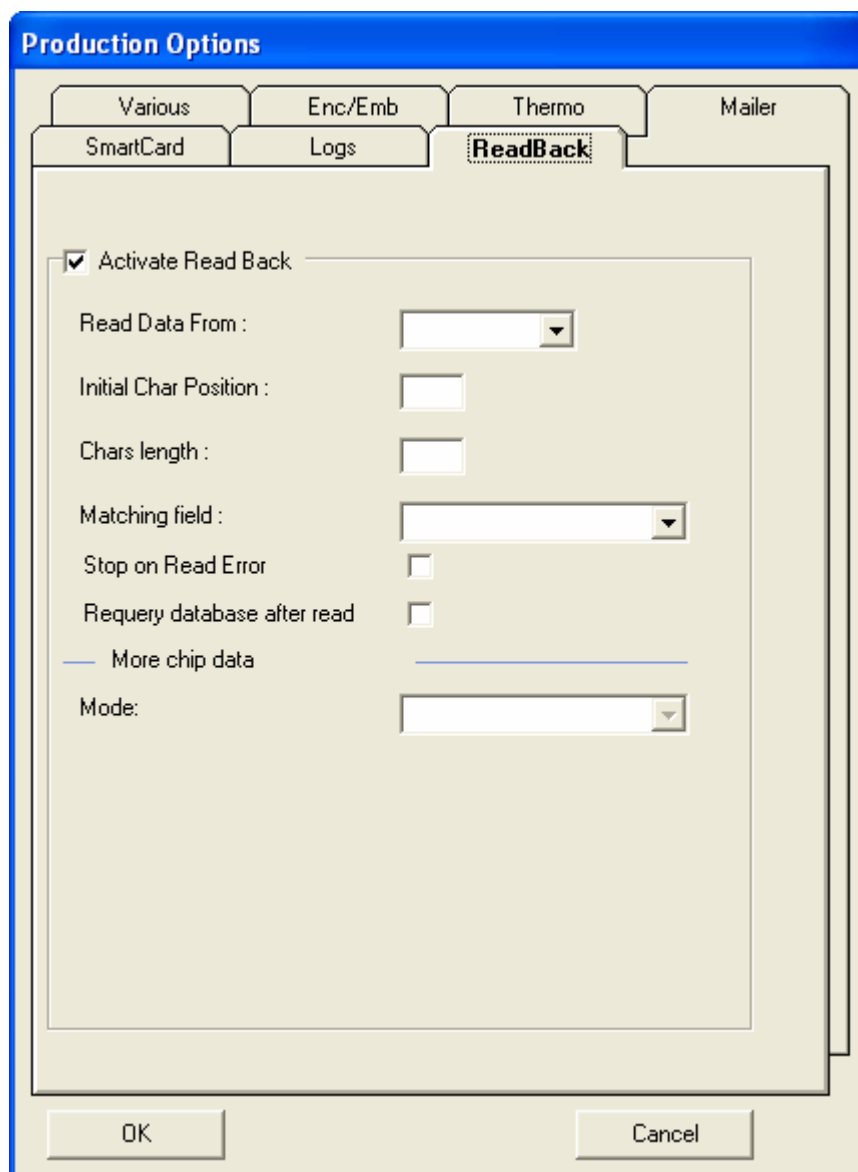
Into the **Thermo Module 2** area, it's possible to set the parameters of the second Thermal printer, if present, as described for the first one.

After setting the desired options, click on the **OK** button into the **Production Options** window.

## Paragraph 5.6 – ReadBack options

The readback function match the data read on a magnetic track, on a chip, on a barcode, on an OCR text, with a connected table field; in this way any job personalization will concern only the database record containing the read data into the matching field.

To set this function, select the **Options** command from the **Options** menu and click on the **ReadBack** tab into the **Production Options** window.



**Fig. 5.7: Readback options.**

Check mark the **Activate Read Back** option to enable the function. Select the source where to read the data into the **Read Data From** combo box; the source can be one of the three magnetic tracks, the chip, a standard barcode, a 2-D barcode (**Barcode mode 2**) or a OCR text (only on demand).



Digit into the **Initial Char Position** box the value representing from which character position of the source start reading the data.

Digit into the **Chars length** box the value representing how many characters must be read, beginning from the Initial Char Position value.

Select the connected table field to associate with the read data into the **Matching field** combo box.

To stop the card production when there is a mismatch between the data read and the selected field, check mark the **Stop on Read Error** function.

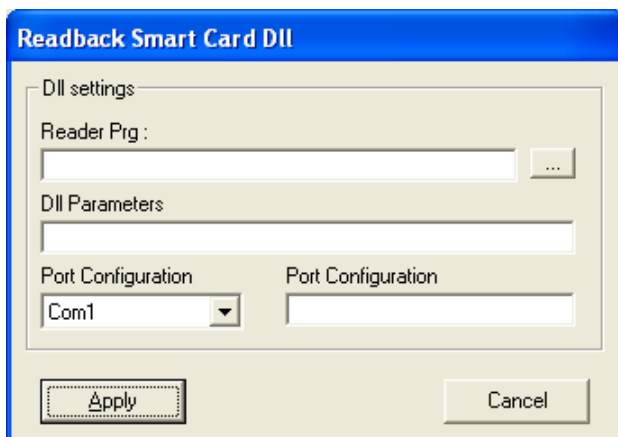
Check mark the **Requery database after read** option to re-synchronized the database linked to MatiCard just after the read, updating the data with possible modification done by the reading application (only with chip and OCR).

If the chosen source data is a chip, the **Mode** combo box becomes available; select into this box the chip communication interface.

If the interface is an EXE program, it's strongly recommended to select the **Exe\_IniFile** instead of the **EXE\_SingleLine**, in fact the last one is compatible only with previous systems. Selecting one of these two options, the **Reader Program** box will be displayed; click on the button aside the box and browse the desired program.

If the selected interface is a **Tcp/Ip** protocol, the **Reader IP** box will be displayed; digit into this box the address of the chip reader.

If the selected interface is a **DII**, the Configure button will be displayed; click on this button to display the **Readback Smart Card DII** window.



**Fig. 5.8: Readback Smart Card DII window.**

Browse the reader program clicking the button aside the **Reader Prg** box.

Insert possibly **DII Parameters** into the related box.

Select the chip reader serial port into the **Port Configuration** combo box.

Insert possibly **Port Configuration** parameters into the related box.

Click on the **Apply** button.

If the chip readback is **Contactless**, check mark into the related area where the contactless chip reader is mounted (Encoder or Bridge module).

After setting all the readback options, click on the **OK** button into the **Production Options** window.

## Paragraph 5.7 – Logs options

The log function automatically creates a file containing the production report and changes record fields data when the related card is produced.

To set this function, select the **Options** command from the **Options** menu and click on the **Logs** tab into the **Production Options** window.

The screenshot shows the 'Production Options' dialog box with the 'Logs' tab selected. The dialog has a blue title bar and several tabs: 'Various', 'Enc/Emb', 'Thermo', 'Mailer', 'SmartCard', 'Logs' (selected), and 'ReadBack'. The 'Logs' tab contains several sections with checkboxes and dropdown menus:

- Production log**
  - ☐ Log Text (with a dropdown menu)
  - ☐ Log Text in DB (with a dropdown menu and a browse button '...')
  - ☐ Verify Redoing
- Log On Card End**
  - ☐ Log on card end (with a dropdown menu and a browse button '...')
- Log Technical**
  - ☐ Show Communication Protocol
  - ☐ Save .prn files
- Database Checks**
  - ☐ Check DB MoveNext

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

**Fig. 5.9: Logs options.**

To create a report file with the job name and the log extension into the job directory, check mark the **Log Text** option. Then select, into the combo box aside the option, the connected field that identifies the produced card record; this field can also be a special one (see Paragraph 4.8).

In this way the log file will contain the production date, the production time and the selected field data of the produced card record for each line of text.

Check marking the **Log Text in DB** option, it's possible to change the values of determined record fields when the related card is produced; these fields are: LOG\_QTY, LOG\_DATE, LOG\_TIME and LOG\_USER.

Select the connected field that identifies the produced card record into the option combo box; this field must be a univocal index key for each record, so it can't be a field to update with the card production (as the LOG\_QTY field).

Click the button aside the Text in DB option combo box and the **Log Data Fields Definition** window will be displayed.

Select the connected table field where to increase the value of one unit, each time the related card record is produced, into the **Quantity** combo box.

Select the connected table fields where to insert the card record production **Date, Time** and **User**, into the related combo boxes.

When all the requested fields are selected, click on the **Apply** button

If the Log Text in DB option is check marked, the **Verify Redoing** option becomes available; check marking this last option enable a production control. When the machine is going to produce a card resulting already produced in the selected Quantity field, MatiCard asks if produce again the card or not; this option is linked to the User Management Card Redo function; if the user doesn't have this right, the production will be stopped (see Paragraph 6.1).

To link an external program to a produced card record (for example an e-mail could be automatically sent to the owner when its card is produced), check marking the **Log on card end** option and select, into the related combo box, the connected table field to identify the record; the program can be browsed clicking the button under the field combo box. This function enable the **End Program** option into the Print Status window (see paragraph 1.4).

To see the communication protocol in real time, check mark the **Show Communication Protocol** option; this option decreases the production speed.

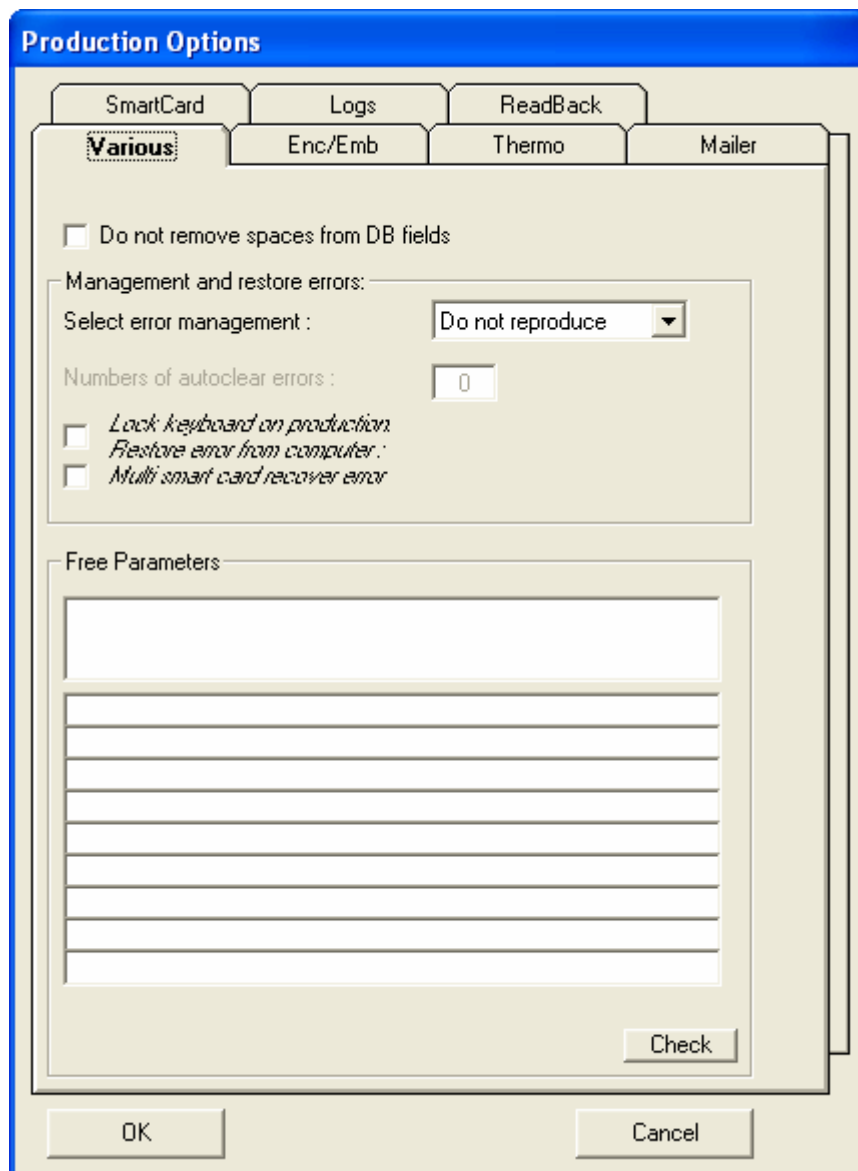
To save a PRN file into the drive temporary directory, containing an image of each card job produced, but only for Thermal printer personalization, check mark the **Save .prn files** option.

In case of remote database linked with ODBC, check mark the **Check DB MoveNext** option in the **Database Checks** area to control that the primary key, defined in the Main Index Field combo box (see Paragraph 4.2), of the last produced record will be different from the primary key of the previous record.

After setting all the logs options, click on the **OK** button into the **Production Options** window.

## Paragraph 5.8 – Various options

To set other production functions, select the **Options** command from the **Options** menu and click on the **Various** tab into the **Production Options** window.



**Fig. 5.10: Various options.**

Into the Various tab, some parameters can have three different statuses.

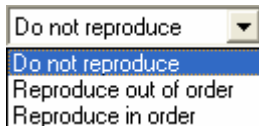
When a parameter is displayed with the italic font style, it means that is considered the default firmware setting.

When a parameter is displayed with the regular font style, it means that is not activated.

When a parameter is check marked, it means that is considered the inserted setting.

MatiCard automatically removes the spaces (HEX 20) at the beginning and at the end of the connected fields data. To maintain these spaces, check mark the **Do not remove spaces from DB fields** option.

To manage and restore errors, select the desired error recovery modality into the **Select error management** combo box.



When there is an error, selecting the **Do not reproduce** modality, MatiCard simply will not reproduce the wrong cards.

When there is an error, selecting the **Reproduce out of order** modality, MatiCard will produce the first available card not respecting the database production sequence; wrong cards will be reproduced as soon as the machine is able to accept an additional buffer.

When there is an error, selecting the **Reproduce in order** modality, MatiCard ejects the already sent cards and will reproduce the first card to load respecting the database production sequence.

The **Number of autoclear errors** function is not available.

If there is the Multi Chip module into the machine, the **Multi smart card recover error** option will be displayed.

When there is an error on a chip reader, check marking this option, the machine will stop the working cycle and will reproduce the first card present into the Loader module and not yet produced, rejecting the wrong card and eventual cards already present into the previous personalization modules, respecting the database production sequence.

To **Lock the keyboard on production** and **Restore the error only from computer**, check mark the related option.

This option is compulsory with the Reproduce in order modality, to avoid pressing a wrong key on the keyboard that could damage the production sequence.

The **Free Parameters** area is dedicated to optional parameters used to activate special function within the MatiCard.

Double click into the boxes of the Free Parameters area to display some optional parameters already set.

```
LAKE_CONFIG  
LAKE_ENCODER_ON  
LAKE_MAGSTRIPE_ON  
LAKE_CVV2_ON  
LAKE_ENCODER_OFF  
MAIL_PAGES  
PRINT_TCPIP  
PRINT_TCPIP_DB  
THERMO_REVERTED  
LABELER ON  
LABELER OFF
```

The parameter **MAIL\_PAGES** must be used in order to manage the special Mailer modality to print more sheets per card. The number of sheets per card must be set after the parameter.

The parameter **PRINT\_TCPIP** instructs MatiCard to use the external print process; the MG\_PRINT external process must be run before MatiCard. After the PRINT\_TCPIP keyword it is possible to specify the Free Parameters that will be sent to the system.

The parameter **PRINT\_TCPIP\_DB** defines the database information to be passed to the external program.

*#\$DATABASE#* is a macro command that will explode to: Database Type, Database Name, Database Table, Database user and Database user password. *SearchField* must be replaced with the field used to search the correct record in the database.

The parameter **THERMO\_REVERTED** must be used in case of Thermal Printer with only one flip-over and the necessity to print both front and rear card sides. In fact the system by default will print first the front side, then the rear side and the card will exit rear-faced; using this parameter will be print first the rear side and then the front side of the card.

The parameter **LABELER ON** enables the Labeler module.

The parameter **LABELER OFF** disables the Labeler module.

The **Check** button in the Free Parameters area is not yet implemented.

After setting the desired options, click on the **OK** button into the **Production Options** window.

## Paragraph 5.9 – Job layout options

To set the job layout options, select the **Card Options** command from the **Options** menu and the **Layout Options** window will be displayed.

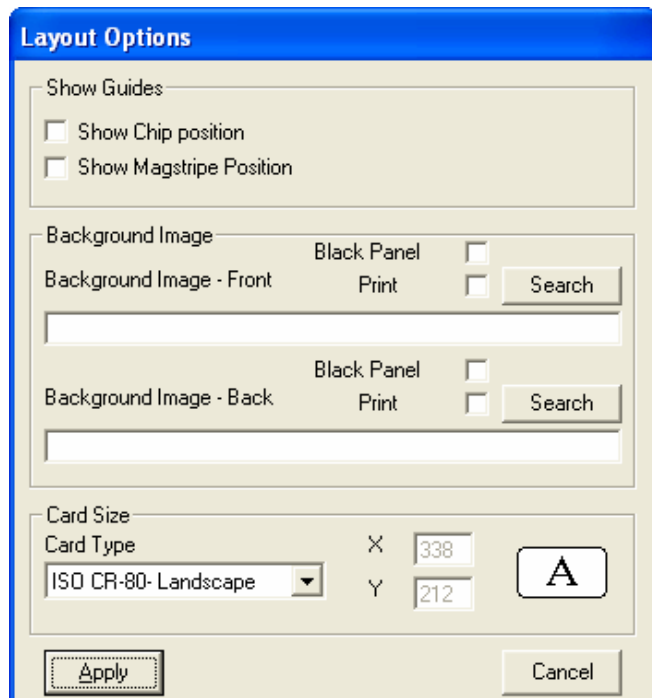


Fig. 5.11: Job Layout Options window.

To **Show** the **Chip position** on the job, check mark the related option.

To **Show** the **Magstripe Position** on the job, check mark the related option.

To display an image on the job background of the card front or rear side, insert the image name and path respectively into the **Background Image – Front** box or into the **Background Image – Back** box, or browse it clicking on the **Search** button aside the related box.

To **Print** the displayed background image, check mark the related option.

To print the displayed background image only in black and white when the full color panel is mounted on the machine, check mark the **Black Panel** option.

To set the card size, select the desired **Card Type** into the related combo box; for the plastic card printers as Series Z, Series Z Modular, Eltron and Matica Chica, the available options are ISO CR-80- Landscape or ISO CR-80- Portrait, while for the metal plate printers as Metal C400 and Metal C320, also the Personalized option is available.

The ISO CR-80 dimensions are fixed and only the orientation can be changed; otherwise, with the Personalized option, the **X** and **Y** dimension can be inserted into the related boxes. The measure unit could be tenth of millimeters or hundredth of inches, depending on the unit chosen (see Paragraph 5.1).

After setting the job layout options, click on the **Apply** button.

If the Card Type is changed, a confirmation window will be displayed, warning that all the current data will be lost.

## Chapter 6 – Users management

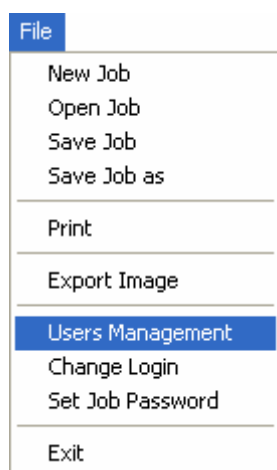
MatiCard can define different profiles for the users in order to allow or forbid certain functions.

The commands to manage the users profiles are in the File menu.

The Users management command defines the profiles functions.

The Change Login command changes the current profile.

The Set Job Password command assigns a password to a specific job.



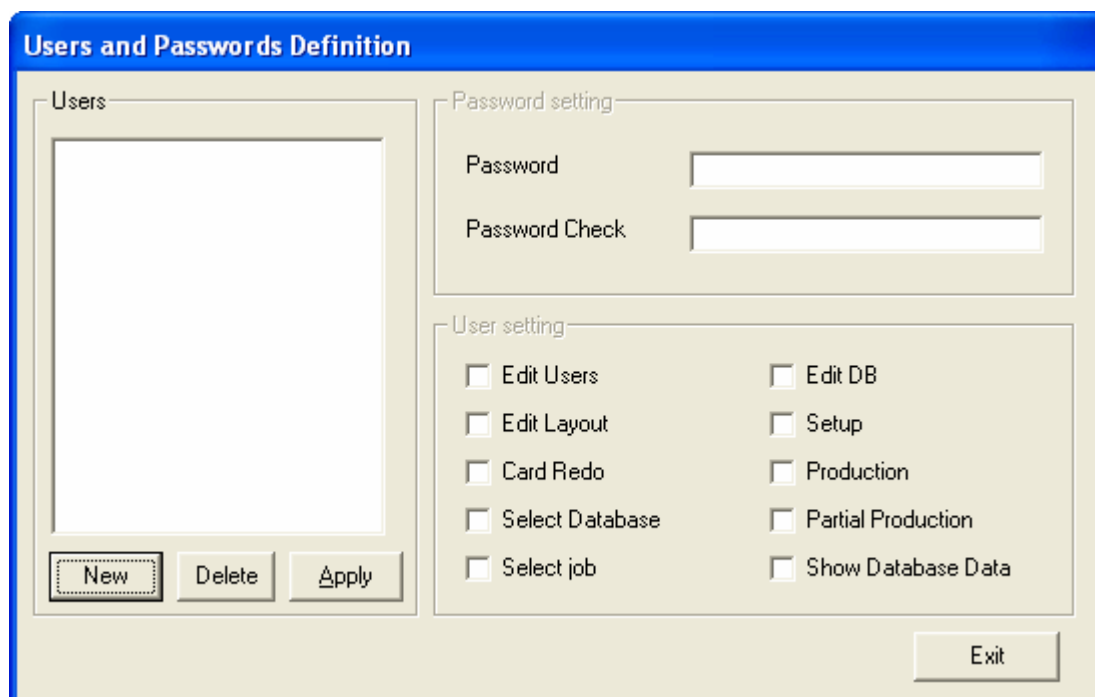
These are the users profiles functions:

- Add or delete users profiles.
- Modify a job.
- Produce automatically a specific card another time.
- Change the connected database.
- Change a job.
- Modify the connected fields data.
- Modify the Preferences.
- Print a card.
- Modify the Print Options.



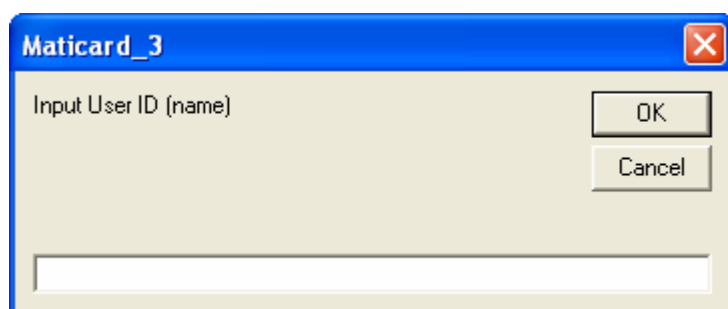
## Paragraph 6.1 – Defining users profiles

To define the users profiles, select the **Users Management** command from the **File** menu and the **Users and Passwords Definition** window will be displayed.



**Fig. 6.1: Users and Passwords Definition window.**

To define a user profile, click on the **New** button; then insert the user name into the displayed window and click on the OK button.



**Fig. 6.2: User name.**

Select the new user profile name into the **Users** box and digit the user **Password** into the related box; now confirm the user password inserting it again into the **Password Check** box. The user password is compulsory. The two passwords must have exactly the same characters (for example small and capital letters).

To allow the new user adding, deleting or changing the other profiles, check mark the **Edit Users** option. If this function is not check marked, selecting the Users Management command, can only be changed the user password.

To allow the new user modifying the jobs, check mark the **Edit Layout** option. If this function is not check marked, the Save Job and the Save as Job commands from the File menu can't be selected; furthermore the Save button and all the job personalizing buttons on the toolbar will be disabled.

To allow the new user producing again a card record, which have into a determined field a value different from 0, check mark the **Card Redo** option. The Verify Redoing option into the Logs Production Options had to be check marked to enable this function (see Paragraph 5.7). If the Card Redo function is not check marked, the Verify Redoing option will be disabled.

To allow the new user creating or opening a database and managing special fields, check mark the **Select Database** option. If this function is not check marked, the Create database, Open Database and Manage Special Field commands from the Database menu will be disabled.

To allow the new user opening a new job or a job previously created, check mark the **Select job** option. If this function is not check marked, the New Job and the Open Job commands from the File menu can't be selected; furthermore the New and the Open buttons on the toolbar will be disabled.

To allow the new user modifying the records data of the connected table fields, check mark the **Edit DB** option. If this function is not check marked, the records data into the Database Data window can't be changed (see Paragraph 4.3); furthermore the Add, Delete and Clear buttons into the same window will be disabled.

To allow the new user setting the MatiCard preferences, check mark the **Setup** option. If this function is not check marked, the Preferences command from the Option menu will be disabled (see Paragraph 5.1).

To allow the new user printing a job, check mark the **Production** option. If this function is not check marked, the Print command from the File menu and the Print button on the toolbar will be disabled.

To allow the new user choosing which modules have to personalize the card and which not, into the Print Options window, check mark the **Partial Production** option. If this function is not selected, the Print Options window won't display the modules options (see Paragraph 1.4).

To allow the new user showing the data of the database fields, check mark the **Show Database Data** option. If this function is not check marked, the Show DB Fields command from the Database menu will be disabled.

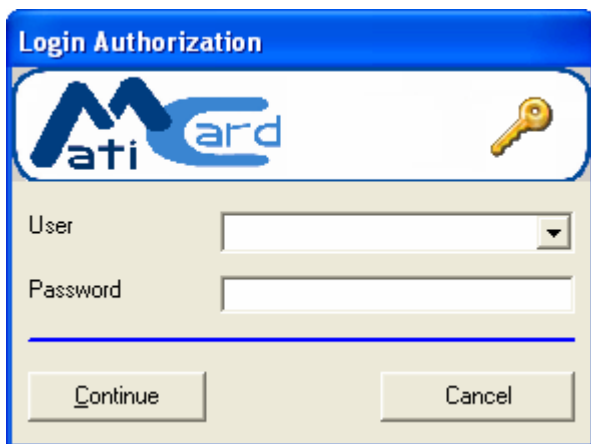
When all the desired option have been selected, click on the **Apply** button and then on the **Exit** button.

It's better to create the first user profile check marking all the option, to avoid problems with possible disabled function.

To remove a user profile, select its name into the **Users** box, click on the **Delete** button and, into the displayed confirmation window, click on the **Yes** button.

To modify a user profile, select its name into the **Users** box and then check mark or disable the desired options; then click on the **Apply** button.

Once the user profile has been defined, running the Maticard program the **Login Authorization window** will be displayed.



**Fig. 6.3: User Login.**

Select the desired user profile into the **User** combo box and its **Password** into the related box; then click on the **Continue** button.

If the profile data are correct, the Maticard will open respecting the functions related to that particular user.

If the user name or the user password is wrong, an error window will be displayed.



**Fig. 6.4: Unknown Operator.**



**Fig. 6.5: Wrong Password.**

## Paragraph 6.2 – Users login and job password

To change the current user profile, without exiting and running again MatiCard, select the **Change Login** command from the **File** menu.

The **Login Authorization** window will be displayed.

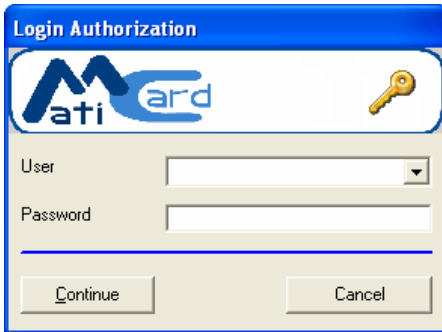


Fig. 6.6: Change current user.

Select the profile to become the current user into the **User** combo box and its **Password** into the related box; then click on the **Continue** button.

If the profile data are correct, the MatCard functions will change respecting the options related to that particular user. If the user name or the user password is wrong, an error window will be displayed.

To define a password when a particular job is opened, select the **Set Job Password** from the **File** menu.

Digit the desired password to open the current job, into the displayed window box, and click on the **OK** button. The job password window will be displayed each time the related job is opened.

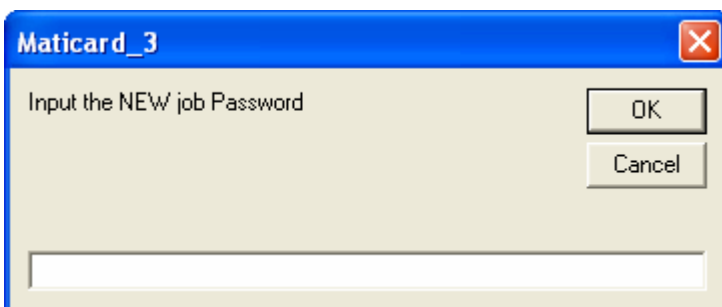


Fig. 6.7: Job password.

If the job password is wrong, an error window will be displayed.

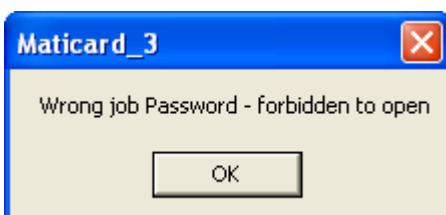
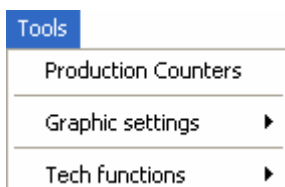


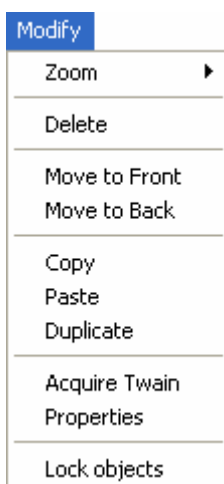
Fig. 6.8: Wrong job password.

## Chapter 7 – Other commands

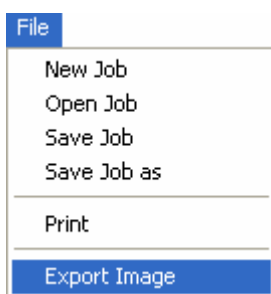
The commands related to the overlay, color settings, production counter, firmware versions and machine parameters are present into the Tools menu.



The commands related to the layout zoom and to the objects management are present into the Modify menu.



Select the **Export Image** command from the **File** menu to save the front and rear sides of the job as two bitmap images into the MatiCard directory.



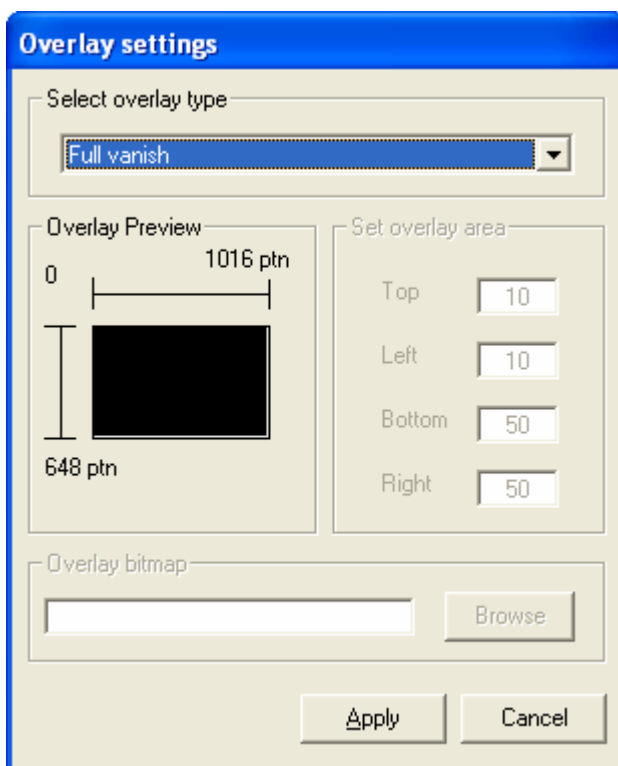
## Paragraph 7.1 – Inserting an overlay

To insert an overlay on the job, into the Ribbon Color combo box of the Thermo Production Options window (see Paragraph 5.5) must be selected a ribbon type including the overlay panel.

To insert an overlay only on the front side of the job, into the Print Side combo box of the Thermo Production Options window (see Paragraph 5.5) must be selected the Front option; otherwise to insert an overlay only on the rear side of the job, into the Print Side combo box must be selected the Back option. Finally to insert an overlay on both sides of the job, into the Print Side combo box must be selected the Front + Back option.

To define the overlay area, select the **Overlay Settings – Front** or the **Overlay Setting – Rear** option, depending on the job side, of the **Graphic settings** command from the **Tools** menu.

In both cases, the **Overlay Settings** window will be displayed.



**Fig. 7.1: Overlay settings window.**

Define the overlay area of the chosen job side into the **Select overlay type** combo box.

Into the **Overlay Preview** area there is a representation of the job side where, depending on the overlay type selected, the overlay area is displayed black and the not overlay area is displayed white.

Choosing the **Full varnish** type, the overlay will be printed all over the job.

Choosing the **Magstipe** type, the overlay will be printed all over the job but not over the magnetic stripe position (only for the rear side job).

Choosing the **Smartcard ISO** type, the overlay will be printed all over the job but not over the standard ISO chip position (only for the front side job).

Choosing the **Smartcard AFNOR** type, the overlay will be printed all over the job but not over the standard AFNOR chip position (only for the front side job).

Choosing the **Select vanish** type, the overlay area must be defined using the coordinates into the **Set overlay area**; the Top and Left coordinates refers to the upper left corner of the area, while the Bottom and Right coordinates refers to the lower right corner of the area.

The Top coordinate value must be less than the Bottom coordinate value and the Left coordinate value must be less than the Right coordinate value.

The unit measure is three hundredths of DPI (dots per inch).

Choosing the **Select no vanish** type, the not overlay area must be defined using the coordinates as described for the Select vanish type.

Choosing the **Bitmap area** type, the overlay area is defined by a specific bitmap file; insert the name and path of the file into the **Overlay bitmap** box or **Browse** it clicking on the related button aside the box.

This file must have bitmap extension (BMP), 2 color format (black and white) and 1016x648 dots dimensions; the black areas of the bitmap defines where to print the overlay while the white areas of the bitmap defines where don't print the overlay.

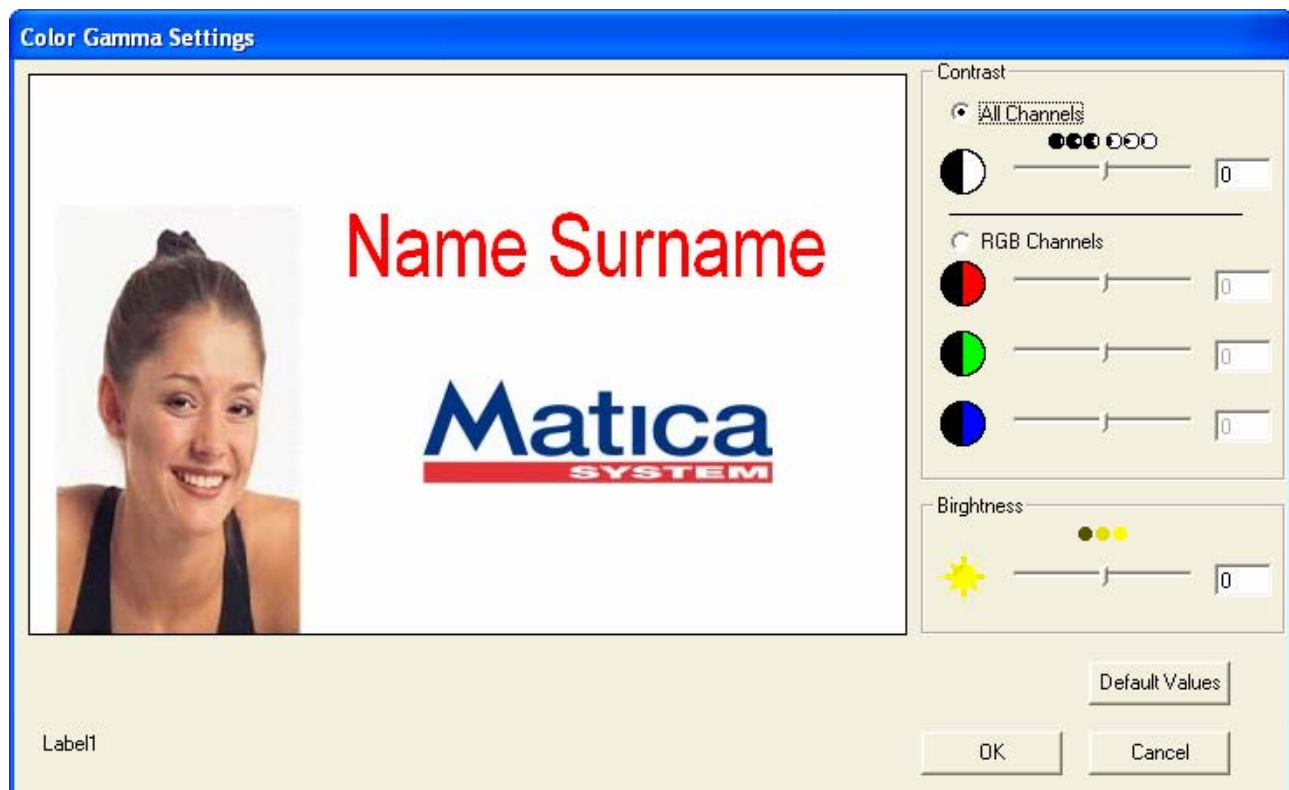
This type is useful when two or more different areas of the job side must be printed with the overlay.

Into the C:/temp directory are present the bitmap files used by MatiCard to define the overlay type; in order to create a personalized file for the Bitmap area overlay type, copy one of the files and draw the different areas with an image editor. Be careful just to copy and not to modify these files.

## Paragraph 7.2 – Color settings

To set all the Thermal printer objects inserted into the front and rear job side at the same time, select the **Color Settings** option of the **Graphic settings** command from the **Tools** menu.

The **Color Gamma Settings** window will be displayed, showing all the Thermal printer objects of the current job side.



**Fig. 7.2: Color Gamma Settings window.**

The following settings are related only to the Thermal printer color panels: yellow, magenta and cyan.

To set the **Contrast** for **All Channels**, digit the desired value into the related box or move with the mouse the indicating pointer aside it.

To set the contrast of each single **Red**, **Green** or **Blue Channel**, digit the desired values into the related boxes or move with the mouse the indicating pointers aside them.

To set the **Brightness**, digit the desired value into the related box or move with the mouse the indicating pointer aside it.

To restore the **Default Values** click on the related button.

When all the desired settings have been inserted, click on the **OK** button.



## Paragraph 7.3 – Technical functions

To display how many cards have been produced, select the **Production Counter** command from the **Tools** menu.

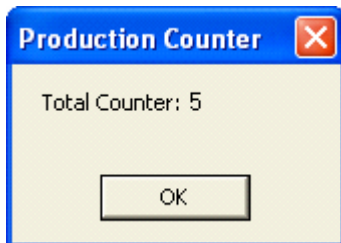


Fig. 7.3: Counter

To display the boards firmware versions, select the **Machine versions and FW** option of the **Tech functions** command from the **Tools** menu.

To import the machine firmware parameters into the Production Options, select the **Get Params From Machine** option of the **Tech functions** command from the **Tools** menu; then click on the **Yes** button into the displayed confirmation window. When the **Machine versions and firmware** window will disappear, it means that the parameter has been imported.

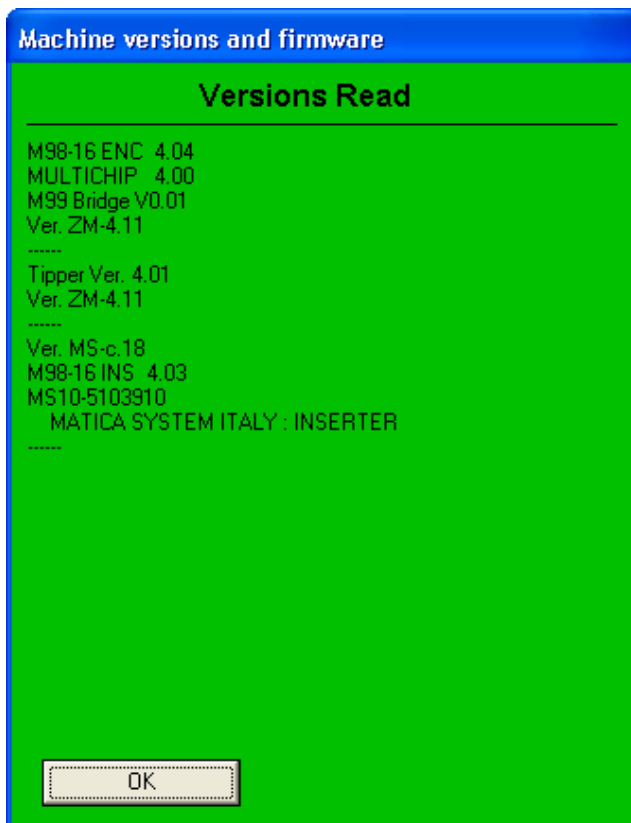


Fig. 7.4: Versions read.

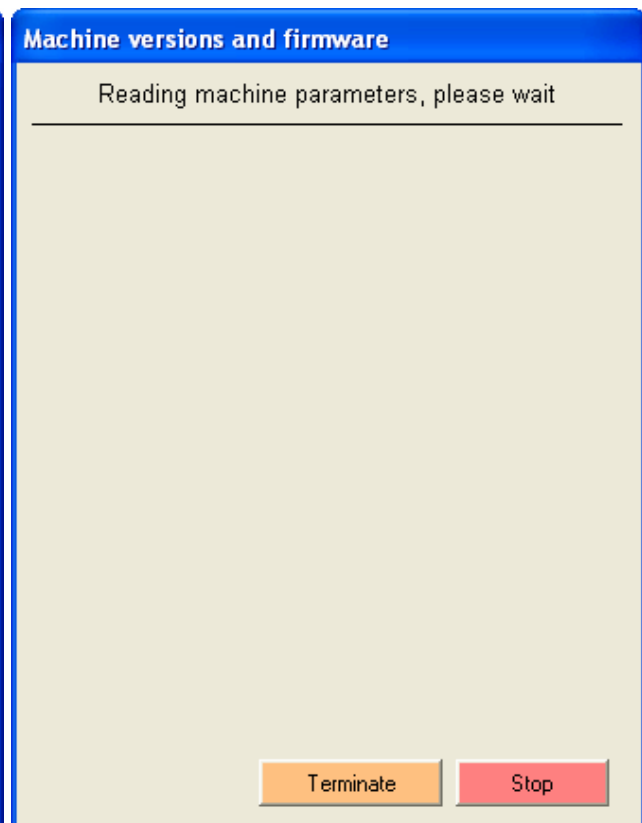


Fig. 7.5: Reading parameters.

## Paragraph 7.4 – Objects management

A series of commands concerning the job objects management are present into the **Modify** menu.

The **Zoom** command allows magnifying the job layout of two times (**x2**), of three times (**x3**), of four times (**x4**) and returning to the default view (**x1**).

To **Delete** an object on the job, click on it and select the related command.

To move an object in front of the other ones on the job, click on it and select the **Move to Front** command.

To move an object behind the other ones on the job, click on it and select the **Move to Back** command.

To **Copy** an object, click on it and select the related command.

To **Paste** an object, copy it and select the related command. If the copied object has been deleted, MatiCard displays a window warning that is impossible to paste.

To **Duplicate** an object, click on it and select the related command.

To apply these commands to more than one object at the same time, draw with the mouse an area including the desired objects and select the command.

To get an image from a twain device, choose the source into the Image Options window (see Paragraph 2.4) and click the **Twain** button; MatiCard will automatically run the device driver.

To display the **Properties** of an object, click on it and select the related command (or double click on the object).

To prevent from inserting or moving the objects on both sides of the job, select the **Lock Objects** command and a check mark will be displayed aside it.

To allow again inserting or moving the objects, select the Lock Objects command another time and related check mark will disappear.

To align different objects to a first one, select them on the job one by one, pressing the Shift key on the keyboard, and right click on them with the mouse; then select the **Align** command into the displayed menu.

Now select the related Align command options to determine if the alignment must be on the **Left**, **Right**, **Top** or **Base** side of the objects area; the other objects coordinates will remain the same.

To set the same dimensions for different objects, select as first object the one with the desired dimension and then select the other objects one by one, pressing the Shift key on the keyboard. Now right click on the objects with the mouse and select the **Dimensions** command into the displayed menu; to set the **Same Height** or the **Same Weight** dimension, select the related command option.

To **Move to Front** or **Move to Back** the chip and the magnetic stripe respect to the other objects, right click with the mouse on the job and select, into the displayed menu, the desired option from the **MagStipe/Chip** command.

## Appendix A – Advanced setup

The Advanced Setup program is automatically installed together with the MatiCard. This program includes a series of very particular setups for the Matica machines.

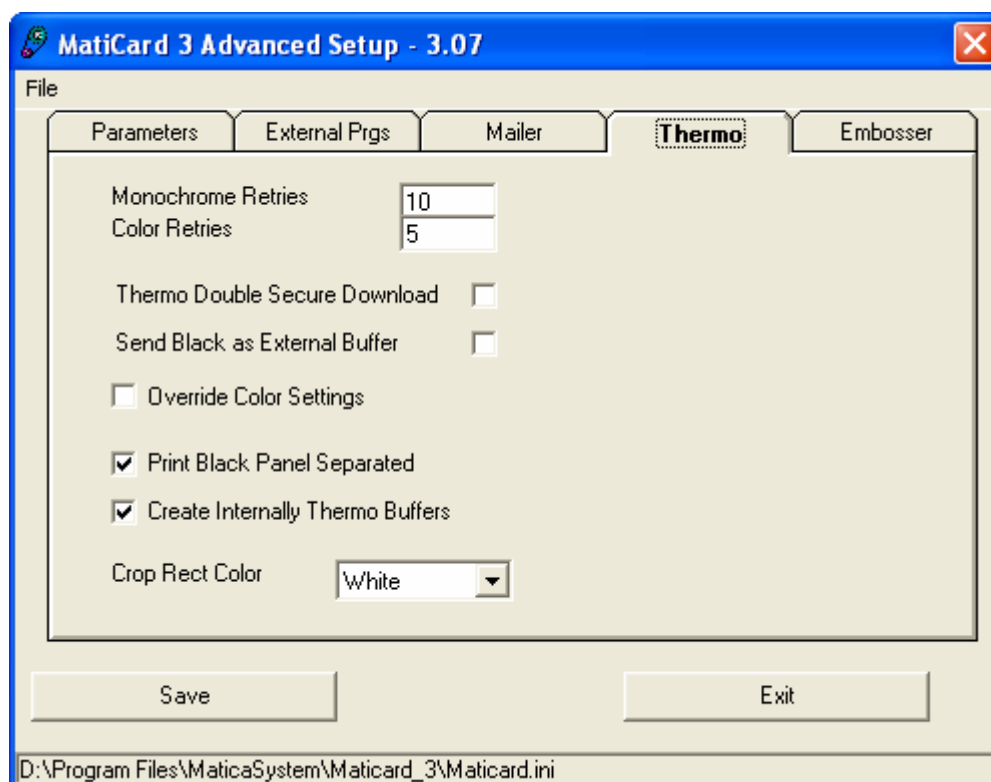
In this Appendix will be shown only the compulsory parameters to correctly configure some machines; for the other options, please refer to Matica technical support.

Run the **Advanced Setup** from the MatiCard group of programs and the related window will be displayed.

Into the message bar on the bottom of the window is displayed the path and the name of the initialization file where the setting are stored; this file is named **Maticard.ini** and is present into the MatiCard directory.

To open this file, select the **Open Ini File** from the **File** menu and double click on it into the displayed window.

To install a machine including a Thermal printer module (for example T10, T20, ZT10 or ZT20), the **Create Internally Thermo Buffers** option into the **Thermo** tab must be check marked.

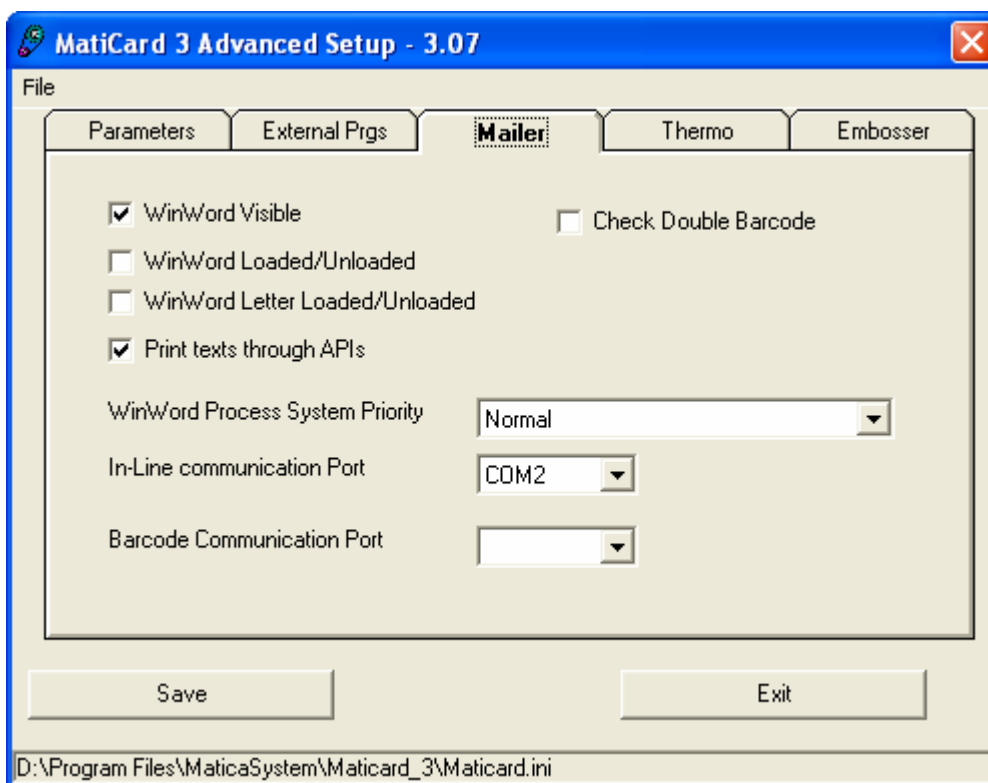


**Fig. A.1: Thermal printer advanced setup.**

When a machine is in line with a Mailer, the serial port used to communicate between the computer and the Mailer must be selected into the **In-Line communication Port** combo box of the **Mailer** tab.

When a barcode or an OCR reader is connected directly to the computer, the serial port used to communicate between the computer and the reader must be selected into the **Barcode Communication Port** combo box of the **Mailer** tab.

In case of Mailer carrier stocks verification, check mark the **Check Double Barcode** option, in order to display a second BarCode combo box into the Mailer tab of the Production Options window (see Paragraph 3.5).



**Fig. A.2: Mailer advanced setup.**

When all the compulsory settings have been performed, click on the **Save** button to store them into the Maticard.ini file.