

EN

OPERATOR MANUAL



ME550 DOG TAG

ME550 DOG TAG

Serial number:

Year:

IMPORTANT:

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1. How to use the manual

1.1 Importance of the manual

The present manual contains the instructions for the start-up, use and maintenance of the embosser ME550 DOG TAG.

Before installing and starting up the machine it is necessary to read carefully all the instructions contained here.

The effectiveness of the servicing strictly depends on properly and systematically following the indications herein.

Please, remember that in case of problems or faults the TECHNICAL SUPPORT SERVICE of MF Group srl - CIM division is always at your complete disposal for any explanation or assistance.

Therefore, MF Group srl - CIM division accept no responsibilities in case of wrong or inappropriate use. MF Group srl - CIM division reserves the right to make changes at any time for the purpose of product improvement without notice.

Make sure that any modification or updating of the Manual you receive is added to the text.

MF Group srl – CIM division is not liable for technical or editorial errors or omissions contained herein.

1.2 How to keep the manual

Do not remove, tear out or rewrite parts of the manual for any reasons. Keep the manual in a dry and cool place.

1.3 How to consult the manual

This manual consists of:

- COVER WITH IDENTIFICATION OF THE GROUP THE EMBOSSERS BELONG TO
- TABLE OF CONTENTS
- INSTRUCTIONS AND/OR NOTES ON THE PRODUCT

By referring to the COVER you can identify the model of the embosser described in the manual.

Referring to the TABLE OF CONTENTS you can find the CHAPTERS and the PARAGRAPHS where you can read all the notes regarding a given topic.

ALL INSTRUCTIONS AND/OR NOTES ON THE PRODUCT aim at identifying safety warnings, correct procedures and operational qualifications required for a proper servicing of the embossers.

Moreover, we would like to underline that some images contained in the manual to make the identification of the described parts easier might not look exactly as the embosser you purchased.

1.4 Symbol

The symbols used in this manual to identify warnings and notifications relevant for safety and for the proper use of the machine are described below. The same symbols can be present on the machine itself to signal danger areas and to reference the corresponding safety notes contained in the manual.

MEANING OF THE SYMBOLS



GENERAL OPERATING NOTE: PAY ATTENTION TO SYMBOLS AND TO THE INSTRUCTIONS CONTAINED IN THE TEXT NEXT TO THEM

Prescription and Indication signs (rectangular shape): obligation to use the protections indicated on the sign to carry out the operation described beside the symbol:



COMPULSORY HAND PROTECTION (GLOVES)



COMPULSORY EYE PROTECTION (GOGGLES)



PROTECT EARS BY WEARING THE SUITABLE EARMUFFS

Caution Signs-Danger Signs (triangular shape): situations of General Danger for the safety of the person or the machine:



CAUTION! GENERAL DANGER



CAUTION! DANGEROUS VOLTAGE



CAUTION! HIGH TEMPERATUR



S00000104

CAUTION! CRUSHING HAZARD



CAUTION! MACHINE MOVING COMPONENTS



INFORMATION

2. General information

2.1 General features

METAL EMBOSSEER 550, below referred to as ME550 DOG TAG, is an automatic system for the customization of "Metal Plate".

The main feature of the ME550 DOG TAG embosser is to produce plate in STAND-ALONE mode, that is without the aid of a computer.

Data in CSV format can be uploaded using a USB Pen (FLASH PEN DRIVE) using the USB port located on the back panel.

The STAND ALONE mode provides the possibility to enter data in two different ways:

- Touch screen LCD display (resolution 800x480)
- USB keyboard

ME550 DOG TAG can also be connected to a Computer with an USB port.

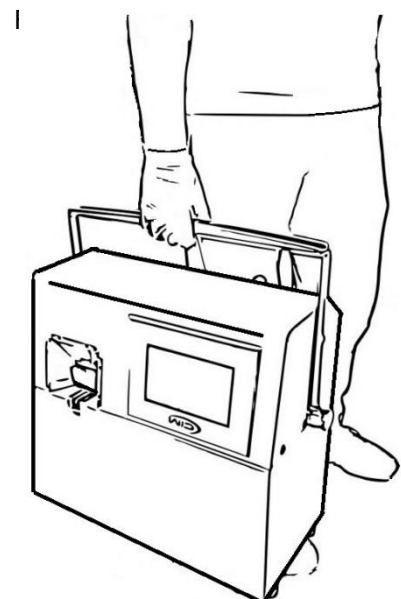
Moreover, protocol standards are available on the machine and make the ME550 DOG TAG system versatile as it can be connected to several existing application packages.

ME550 DOG TAG embosses all plates' type "DOG TAG" (Fig. A) and Medical Red Alert Tag" (Fig. B).

Any other different usage of the embosser is not permitted.



Fig. A



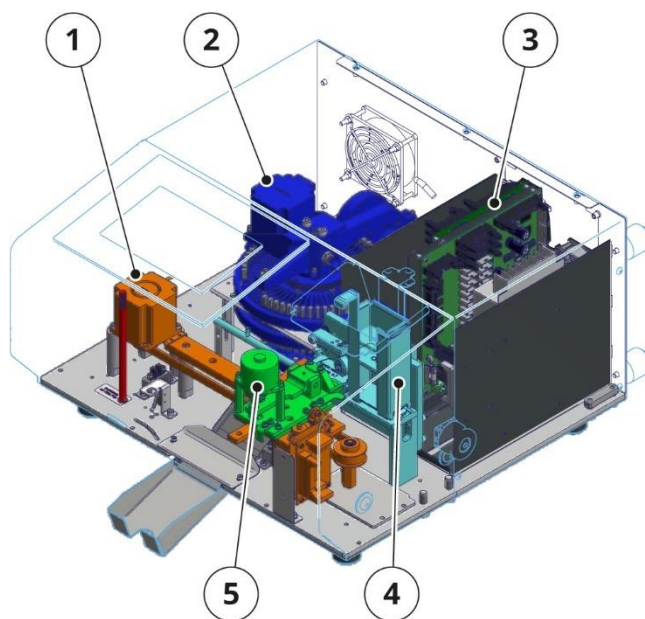
The embosser can be easily carried. However, it weighs 2.6 kg, therefore it is necessary to be extremely careful when moving it. It is advisable to take all necessary precautions regarding its transportation, such as locking the clamps with the provided lock. When the machine reaches its destination, it must be positioned horizontally to operate and released from the locks.

2.2 Main components of ME550

This paragraph shows the main components of the embosser ME500 and is useful for their identification.

It is also meant as an instrument that allows the client to interface with our specialized technicians in the most appropriate and suitable way.

MAIN COMPONENTS AND THEIR POSITION



1. X Axis clamp sliding
2. Drum-Embossing unit
3. Machine power supply unit
4. Removable tag feeder
5. Picking clamps

ME550 DOG TAG console consists of an LCD touch panel.

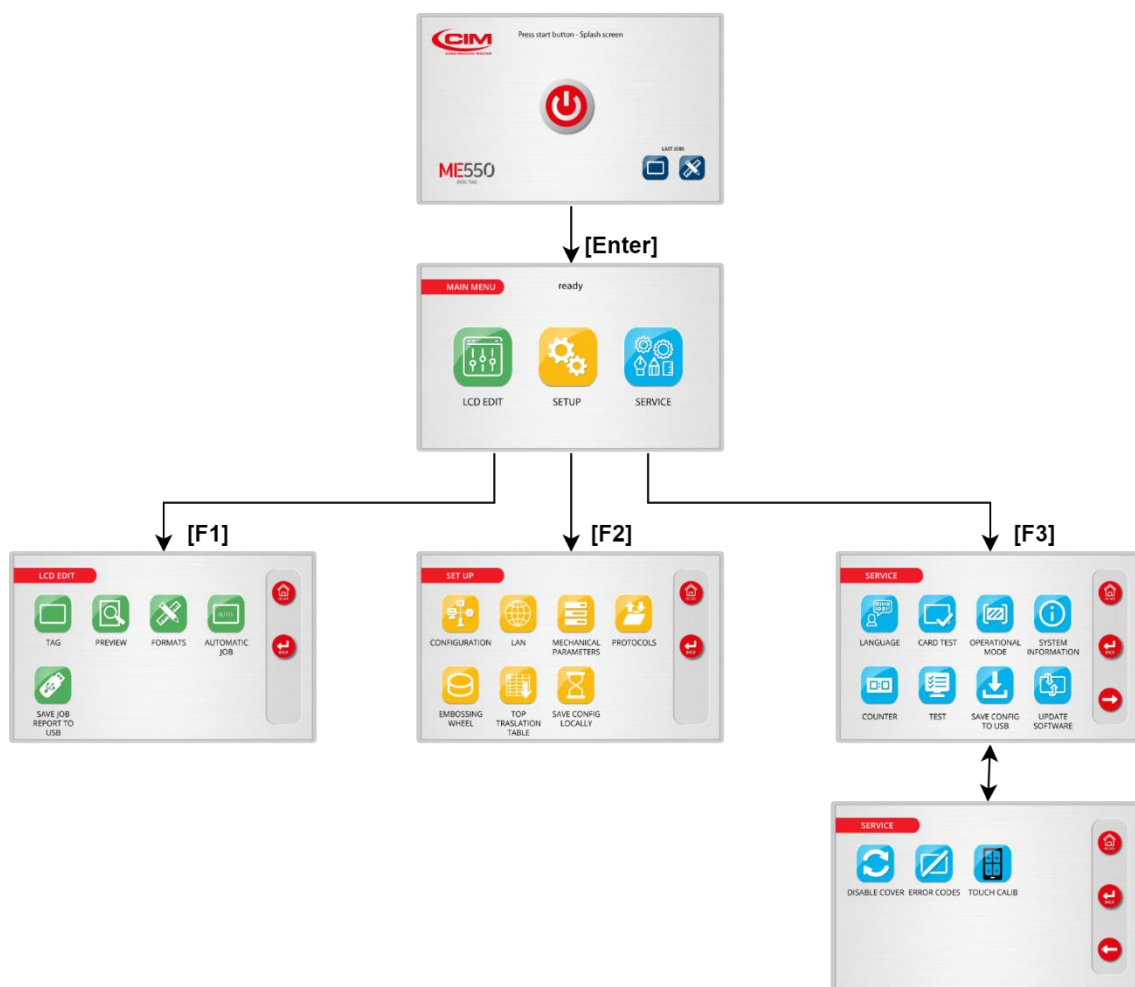
The touch panel allows to view the operating state of the machine, the functions connected to the plates' production, the work settings and the machine settings.

It also displays different symbols, logos and fonts.

Thanks to the touch panel it is possible to access the various functions provided by the machine, such as arranging tasks, setting the machine and checking its functionality.

It's possible use an external keyboard to move through the screens.

In the bracket [...] is shown the function (F1; F2; ENTER; ESC; arrows; etc.) when an USB keyboard is connected (optional)

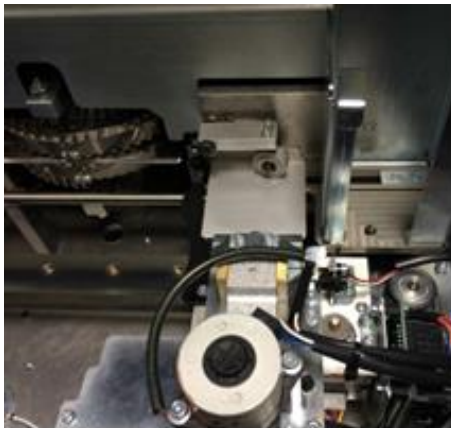


2.3 Operating principle of ME550

To produce a Plate, ME500 carries out a sequential cycle that can be briefly summarized in the following stages:

- LOADING
- EMBOSSING
- UNLOADING

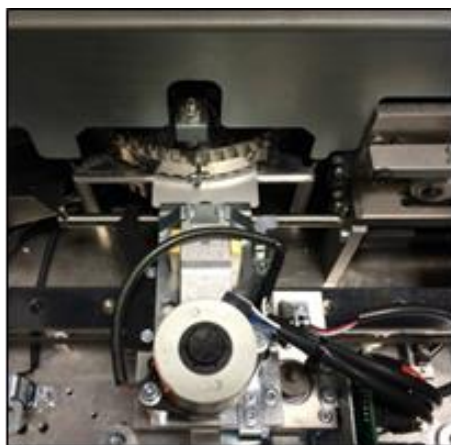
IMPORTANT:
THE OPENING OF THE FRONT PANEL CAUSES THE IMMEDIATE STOP OF THE MACHINE AND THE INTERRUPTION OF ALL THE PROCESS IN PROGRESS.



LOADING

The plate is ejected from the loader by the thrust of a sprocket moved by the clamps that takes it to the loading area.

When it reaches the aforementioned area, the tag is picked up by the clamps.



EMBOSSING

After picking up the plate, the clamps transport it to the printing area, placing it under the drum and simultaneously extracting another one.

At the same time the drum rotates, thus taking the character to be embossed under the stamp and starting the embossing cycle.



UNLOADING

When all the plate's characters have been embossed, the clamps move to the unloading area and drop the plate into the provided tray.

The unloading stage ends the operating cycle of the plate.

2.4 Electrical specifications

Power supply	100-240 Vac 50/60 Hz
Max Absorbed Current	1,50 A
Absorbed Power	120 W
Fuse (5x20 mm)	T 2A
Main controller	Coldfire 32-bit, 66 MHz BGA technology
PC interface	USB (cavo USB A - USB B)
Baud Rate	Programmable
Working Noise	Lower than 73 dB (A)
Display	Display Touch

2.5 Rating of the equipment and applicable standards

Category	II
Protection classification	IP 20
Applicable standards	UL60950-1 IEC 60950-1 IEC EN 55022 IEC EN 55024 IEC EN 61000-3-2 IEC EN 61000-3-3

2.6 Terms of use

Working temperature	+ 10° ÷ +35°
Humidity	20% ÷ 85%
Storage temperature	0 ÷ +50°
Altitude	1000 m

2.7 Dimensions and weight

Height	270 mm
Width	486 mm
Depth	495 mm
Weight	26 Kg

2.8 Production capacities

Tag size	28x50 mm (Dog Tag) 32x57 mm (Med. Alert Tag) 60x65 mm
Materials and Thicknesses	0.65÷0.75 mm Aluminum 0.65÷0.75 Stainless Steel 0.8 Stainless Steel Dog Tag

Drum Capacity	Value referring to the center of the tags
Max punchable surface	Up to 60 Characters Embossing is possible up to 3 mm from the clamp with Dog Tag and Medical Alert Tag type Embossing is possible up to 8 mm from the clamp with 60x65 Stainless Steel tag with optional "REVERS HOLE" is possible to emboss until the lower border of the tag.
Loading hopper capacity	130 Stainless Steel Dog Tag 140 Aluminum Medical Alert Tag 140 Stainless Steel 60x65 Tag
Productivity	5 lines x 9 characters up to 130 tags/hour, depending on the job.

2.9 Operating precautions and safety regulations



The machine must be placed in a closed room, duly protected from dust and excessive humidity. It should be positioned so that its distance from walls, doors, windows, other machines or workstations allows to have immediate access to its various parts in case of emergency, or to make the necessary maintenance or repair work easier.



Do not install the machine near operating devices that produce dust, since the dust might settle and accumulate inside the machine itself thus damaging the internal electric devices.

Do not place the machine near a heat source, excessive cooling sources, water sources, electromagnetic sources and smoke.

The machine must be placed on a top raised from the floor and properly leveled at least at 60 cm height.

Do not run the machine in vertical position.



The machine is provided with special safety guards to prevent the operator from coming in contact with the mechanical and electrical parts inside the machine. Only specialized and authorized operators can access these parts for maintenance and repairs. Simple general maintenance can be performed by the operator without any risks of electrocution or other damages due to mechanical devices, but it must be carried out after the machine has been stopped and the power supply disconnected.

Do not tamper with the machine safety devices and do not modify them, even partially.

The machine is made of flame-resistant materials in order to reduce the risk of fire.

Moreover, it is fitted with a short circuit protection system that guarantees the prompt isolation of the power supply.

Always make sure that the power cable is intact and has no cuts and cracks. The presence of cuts or cracks might cause the user's electrocution and might create serious damages to the machine.



Do not place or drop liquids on the machine cover as it is not watertight.

It is particularly important to avoid any risk of oxidation that might cause wear and tear and erosion to the mechanical parts.



The noise level produced by the machine is lower than 75 DB (measured at 1 m distance and at 1.60 m height from the floor).

The aforementioned value can be higher when special types of steel tags are worked or if the machine is placed on a worktop that amplifies the noise or if the machine has not been properly adjusted. If the operator is exposed every day to a noise level probably higher than 85 DB, it is necessary to use ear protection as provided for by standards 86/188/CEE

2.10 Safety requirements



The Operator's Area of ME550 is compliant with all the safety requirements set by the main European and non-European regulations. Still, we suggest carefully reading the indications contained in the following pages, where the symbols used in the Machine Operator Area, the possible dangerous situations and the necessary precautions are described.



Dangerous mechanical parts (belts and pulley) - Risk of being crushed or trapped.

Make sure you do not enter the working areas with your hands. Tie your hair to avoid the risk of it being trapped in the machine.

For the same reason keep any hanging objects that you might wear such as ties, necklaces, pendants or others away from the machine.

The machine is provided with mechanical protections (locks, screens, shields) and software protection systems to stop immediately all the moving parts when the front guard is opened. However, in case of damages to the safety system the machine can work even with the cover open. In this case the moving mechanical parts represent a potential danger for the operator's safety. If the protection systems are damaged, switch off the machine and call for technical support.

Warning: The machine can be started even with a remote control (Personal Computer). When it is necessary to work on potentially dangerous parts (removing stuck boards, resetting in case of errors or routine maintenance) be extremely careful.



High voltage parts - Electrocutation hazard

It is not possible to access any high voltage tension part from the Operator's Area. All the high voltage circuits are positioned in closed areas and protected by fixed shieldings.

To guarantee maximum safety the covers and all the accessible metal parts are electrically grounded. Before putting the machine on the market, the efficiency of the ground connection is checked on all the appliances by the staff in charge of quality control.

It is forbidden to remove or modify in any way the external and internal guard protections of the machine. Should it be necessary, please contact the Technical Service of MF Group – CIM division.



The machine is provided with special safety protections to avoid the operator to come in contact with its internal mechanical and electrical parts. Access to these parts is permitted only to specialized staff in charge of repairs and maintenance and especially authorized to carry out these tasks. The simple maintenance can be safely carried out by the operator, as long as the machine is stopped and disconnected from the power supply.



MF Group srl - CIM division accepts no responsibility for the damages that might be caused by non-respect of the above stated instructions. In case of faulty operation please contact the technical service.

NEVER REMOVE OR MODIFY THE PROTECTIONS

The machine is provided with labels signaling possible danger areas. Their meaning is described in the following paragraph

MF Group CIM division cannot be held responsible for the consequences of not abiding by these rules for the use of the machine. In case of breakdown call technical service.

2.11 Operation in technician mode

The authorized technical staff can temporarily disable the safety system associated to the "cover open" thus allowing the use of the machine when protections are not active (menu SERVICE - DISABLE COVER, protected by a password).

CAUTION! DO NOT USE THE MACHINE IN TECHNICIAN MODE UNLESS SPECIFICALLY AUTHORIZED BY MF Group – CIM division. MODE RESERVED TO EXPERIENCED AND AUTHORIZED USERS.

Take the necessary precautions to make sure that the password that allows to disable the safety devices is not given to non-qualified staff.

If you think that non-authorized people might know the password, modify it immediately (refer to the technical manual or contact the technical staff of MF Group - CIM division).

MF Group – CIM division accepts no responsibility for any damages to people, property or animals due to the non-respect of the above- stated precautions and particularly to the use of the machine with protections disabled by non-authorized staff.

2.12 Symbols present on the machine

Some parts of the machine are covered with symbols on self-adhesive labels signalling their function and dangerousness.

In this way the operator knows what kind of precautions to adopt and can consequently behave in the most suitable way.

It is strictly forbidden to remove them.



BEWARE OF YOUR HANDS RISK OF BEING CRUSHED OF STRUCK

The machine in the wooden package weighs about 60 Kg, therefore it must be moved by more than one person.

The net weight is 31 Kg. Be extremely careful when moving it.



CAUTION HIGH VOLTAGE

It is forbidden to carry out any work when the machine is under power. To replace the mains fuse or to perform internal maintenance work remove the main power cable and do not work on the socket.



ATTENTION MOVING COMPONENTS

In case of internal maintenance work the technician must disconnect the power supply and work only when the machine has stopped.



ATTENTION GENERAL DANGER

The machine has various moving mechanical parts. Do not work inside and do not remove the covers except for the front door used to load the plates



GROUNDING CONNECTION

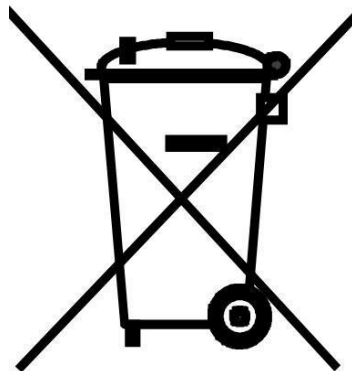
Connection point of the protection grounded conductor.

2.13 RAEE regulation

WEEE (Waste Electrical and Electronic Equipment) declaration

MF GROUP srl declare that its products comply with the European Directive 2012/19/EU on waste electrical and electronic equipment, which purpose is the prevention of WEEE and the re-use, recycling and other forms of recovery of wastes.

MF GROUP srl is registered, within the terms of the law, to the Italian WEEE Register with the number A.E.E.è IT08020000003483 and fulfil the obligations of financing of WEEE management by adhering to a collective funding system.



The symbol of the crossed-out wheeled bin on the product or on its packaging indicates that it should not be disposed of as a household waste. Instead it shall be handed over to the appropriate collection point for recycling of electrical and electronic equipment.

By ensuring the product is disposed of correctly, you will help prevent potential damage to the environment and human health.

Inappropriate waste handling of the product could cause potential damage to the environment and human health and involves the application of the administrative sanctions provided by law.

For further detailed information about recycling of the product, please contact your local council office, your household waste disposal service or the manufacturer of the product.

DECLARATION OF 'CE' CONFORMITY

The manufacturer MF Group Srl - Via Serra, 2 - 40012 Calderara di Reno - Bologna - Italy,
 DECLARES UNDER SOLE RESPONSABILITY THAT THE PRODUCTS SERIES

METAL EMBOSSE

MODELS

ME550



**TO WHICH THIS DECLARATION REFERS, ARE IN CONFORMITY WITH
 THE FOLLOWING EUROPEAN UNION DIRECTIVES:**

- N° 2006/42/EC of 17 May 2006 on machinery, and amending Directive 95/16/EC
- N° 2014/35/UE of 26 February 2014 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits
- N° 2014/30/UE of 26 February 2014 on the harmonization of the laws of Member States relating to electromagnetic compatibility, replacing Directive 2004/108/EC
- N° 2011/65/EU of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast), replacing Dir. 2002/95/EC

**AND WITH PARTICULAR REFERENCE TO THE FOLLOWING
 INTERNATIONAL IEC STANDARDS:**

- EN ISO12100 Safety of machinery - General principles for design - Risk assessment and risk reduction
- EN 60204-1 Electrical equipment of machines – safety of machinery
- EN 62368-1 Safety of Audio/video, information and communication technology equipment
- EN 55022 Radio disturbance characteristics
- EN 55024 Immunity characteristics
- EN 61000-3-2 Harmonic current emissions
- EN 61000-3-3 Voltage fluctuations and flicker
- EN 61000-4-2 Electrostatic discharge immunity
- EN 61000-4-3 Immunity to Radio frequency electromagnetic fields
- EN 61000-4-4 Immunity to Fast voltage transients on Power AC line and serial data line
- EN 61000-4-5 Immunity to surge
- EN 61000-4-6 Immunity to conducted disturbances, induced by radio-frequency fields
- EN 61000-4-8 Power frequency magnetic field immunity test
- EN 61000-4-11 Immunity to voltage dips, short interruptions and voltage variations

PLACE AND DATE OF ISSUE Calderara di Reno, May 20, 2020
 NAME Claudio Di Marsico
 POSITION Plant Manager

SIGNATURE

Person authorised to compile the technical file:
 Franco Salcuni
 Via Serra 2 - Calderara di Reno (BO)

Last two digits of the year in which the CE marking was affixed: 20

2.14 Declaration of compliance

The manufacturer MF Group srl - CIM division - Via Serra, 2 - 40012 Calderara di Reno - Bologna – Italy, declares under its sole responsibility that the embosser ME500 is compliant with the main international standards and particularly that:



ME500 complies with part 15 of FCC rules, subchapters A and B - sections 15.107 (b) (e) and 15.109 (b) (g) - concerning Class A digital devices.

The device complies with the provisions contained in part 15 of the FCC rules. Its functioning depends on the following two conditions:

- (1) This device cannot cause damaging interferences, and
- (2) This device must allow prospective interferences, including those that might cause undesired operation.



UL60950 Approval (Safety of Information Technology Equipment) File No. E231519



The equipment complies with the following European Directives: 2004/108/EC, 2006/42/EC, 2006/95/EC.



ME500 complies with the IEC International Standards on Safety of Information Technology Equipment, EN 60950-1:2006 and IEC 60950-1:2005 (modified) Certificate N. NO50313/A1 dated 2008-12- 12



ME550 complies with all the requirements of China RoHS standards concerning pollution caused by Electronic Information Products (SJ/T11363-2006, SJ/T11364-2006, SJ/T11365-2006)

Part Name	Toxic or Harmful Substances or Elements
-----------	---

2. General information

	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr VI)	Polybrominated biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
ME550	O	O	O	O	O	O
<p>O: indicates that this toxic or harmful substance contained in all homogeneous materials used for this part is below the limit set by the provision SJ/T11363-2006.</p> <p>X: indicates that this toxic or harmful substance contained in at least one of the homogeneous materials used for this part is above the limit set by the provision SJ/T11363-2006.</p>						

Contact directly MF Group – CIM division to obtain a copy of the original declarations of compliance

3. Unpacking

3.1 Unpacking

The machine is delivered in a wooden case to avoid damages during transportation



CAUTION:
DO NOT PERFORM ANY WORK BEFORE CAREFULLY READING THE WHOLE OPERATOR'S MANUAL.



CAUTION:
ALL DISPLACEMENTS MUST BE CARRIED OUT WITH A DOUBLE FORK-LIFT OR BY 2 PEOPLE, AS THE GROSS WEIGHT OF THE CASE IS ABOUT 50 Kg AND ITS OVERALL DIMENSIONS ARE: 830x730x600 mm.



CAUTION:
THE EMBOSSESSER WEIGHS ABOUT 26 Kg.

To unpack the machine, follow the instructions below:



Before opening the case, check that the packing is intact and not damaged. Make sure that the case has not been turned over during transportation. Check that the seal on the indicator is not red.





Remove the bottom screws with a screwdriver



Lift and remove the case.

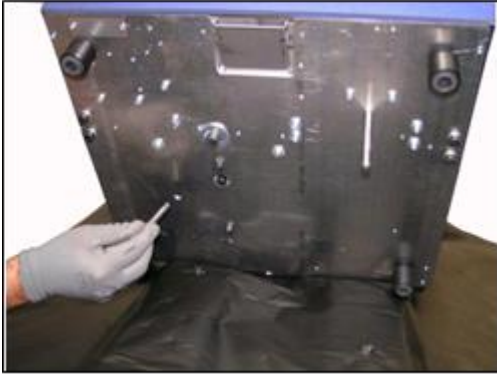
Keep the packing material for possible future use or dispose of it in the suitable container for separate collection of waste.



Open the protective wrapping, being extremely careful not to damage the machine. It is advisable to cut the wrapping along its seam.



Using a CH 17 wrench remove the clamp nuts of the two anchor pins placed under the pallet top.



Unscrew the two anchor pins from the base of the machine.



After closing the holes, it is possible to lift the machine and place it on a worktop. To move it properly, take the machine to the horizontal position opposite the panel.

4. Installation

4.1 Accessories check list

Before installing the machine, it is advisable to check its integrity and that of the accessories. Any damages occurred during transportation might prejudice the overall functioning.

The accessories supplied with the embosser, in a separate bag, are listed below:

- 1 POWER CABLE WITH SCHUKO PLUG (CEE VII)
- 1 USB PEN DRIVE CONTAINING THE OPERATOR'S MANUAL
- 2 KEYS TO OPEN THE MACHINE
- 2 REMOVABLE TAG FEEDERS (DOG TAGS and RED MEDICAL TAGS)
- 1 TAG COLLECTION TRAY
- SAMPLE EMBOSSED TAGS

The optional software kit for this machine is the one in the image below and the USB cable.

Below is the part # for the software kit, it does not include the USB cable,

- | | | |
|----------|---------------|--|
| P8315018 | POWERTAG LITE | 1) N8415004 HARDWARE KEY POWERTAG LITE |
| | | 2) C5513098 USB KEY 2GB |
| | | 3) C5513099 BOX FOR USB KEY 2GB |



**WARNING:**

DO NOT PERFORM ANY JOB BEFORE CAREFULLY READING THE WHOLE OPERATOR'S MANUAL.

**WARNING:**

USE ONLY POWER CABLES NOT LONGER THAN 4.6 M, TYPE SVT OR SJT, 3X18 AWG 10 A, EQUIPPED WITH GROUND CABLE.

**WARNING:**

THE EMBOSSER WEIGHS ABOUT 30 Kg. HANDLE WITH CARE AND CAUTION

4.2 Positioning the machine

Install the machine on a surface of at least 0.6 m of height.

Check that the place where the machine is installed meets the environmental requirements previously specified.

Leave at least 0.3 m distance between each side of the machine and the closest walls in order to guarantee better access to the connectors and allow suitable air circulation.

A clearance of 0.4 m above the covers is necessary to be able to open them.

Make sure that the surface on which the machine is placed does not amplify the noise level above the allowed value and that it is sufficiently strong and solid to stand the weight of the machine (31 Kg).

Do not run the machine in vertical position.

4.3 Removing mechanical locks and installing accessories

After placing the embosser in horizontal position and having respected all safety requirements (chapter OPERATING PRECAUTIONS AND SAFETY REGULATIONS) and before setting up the electrical connection it is necessary to remove the retainer pin that locks the clamp.

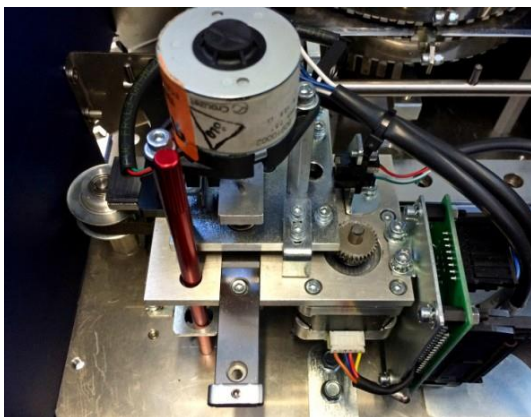
The machine does not operate when the pin is placed in.



IMPORTANT:
**DO NOT START THE EMBOSSER BEFORE REMOVING THE CLAMP
RETAINER**



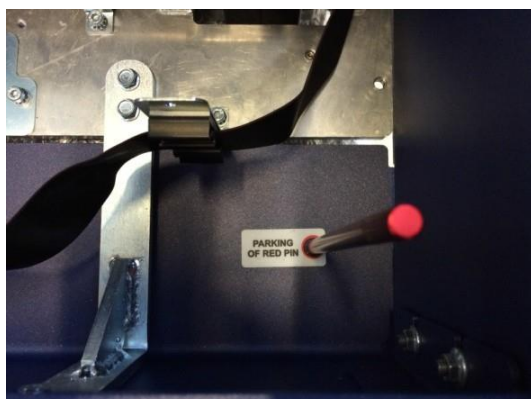
WARNING:
**EVERY TIME THE EMBOSSER MUST BE MOVED, LOCK THE CLAMP
WITH THE SPECIALLY PROVIDED PIN**



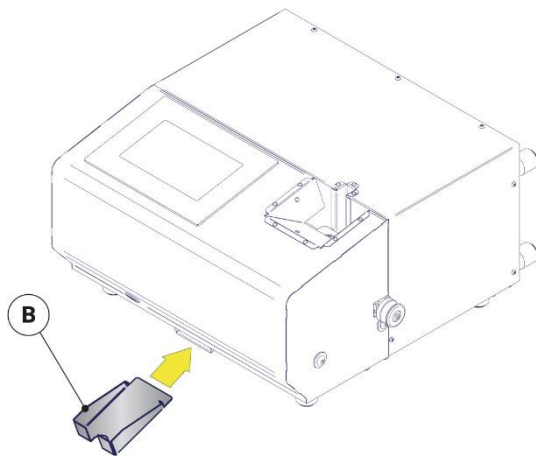
Remove the clamp retainer pin. To remove it:

- Remove the wing nut placed under the machine base where there is the pin.
- Unscrew the pin and take it out.

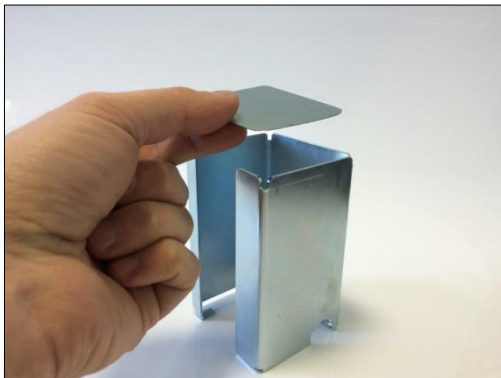
NOTE:
The retainer pin is red.



- Put the pin in the suitable hole shown by label located on the left side in front of the motor stepper and replace the wing nut.
- Close the front panel, lock it with the key and pull the key out.

4. Installation

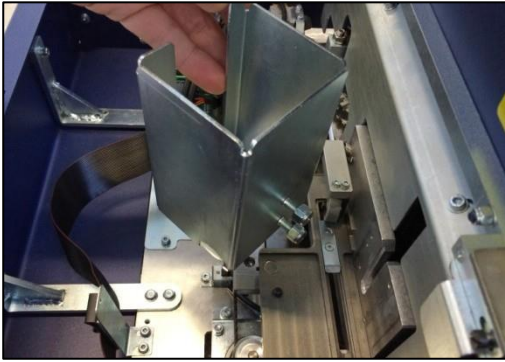
- Fix the tag collection tray to the bottom of the machine at the outlet port of the discharge chute.
To fix it: put the two flaps into the slots of the support and pull the tray towards you.



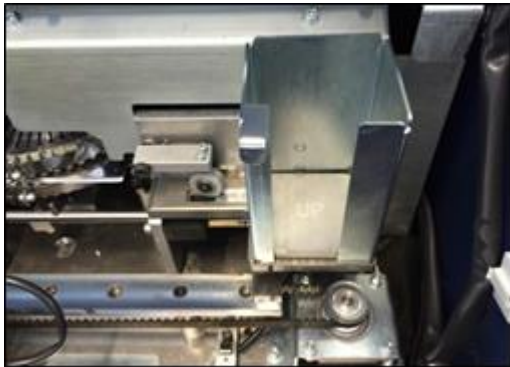
Fill the loader with the plates.
For the position of the plates refer to chapter 5 "PLATES PRODUCTION".



Insert the special weight plates.



Insert the loader into its compartment.



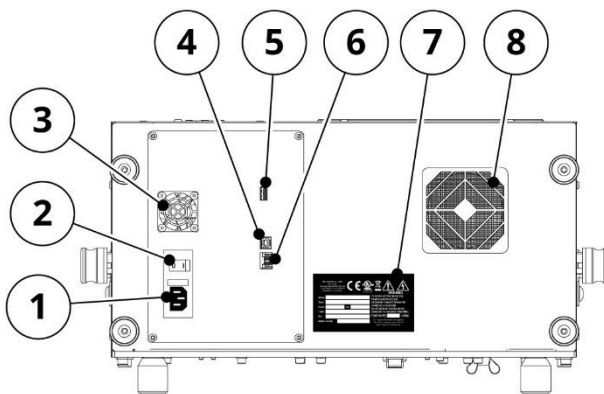
Push it down at the end position.

To move the embosser somewhere else, when the machine is off, remove all electrical connections and repeat the above-stated operations in the reverse order

4.4 Electrical connection

The installation of the embosser **ME550** can be easily carried out by accessing the various connections plugs, located on the rear panel.

BACK PANEL



1. SOCKET PA 80 FOR MAIN CABLE
2. POWER SWITCH AND FUSE
3. VENTILATION FILTER GRIDS
4. USB PLUG TYPE B
5. USB PLUG TYPE A
6. ETHERNET PLUG
7. IDENTIFICATION PLATE
8. VENTILATION FILTER GRIDS

Proceed as indicated below:

- Connect the USB TYPE B cable (Optional) between the Computer and the Embosser in case you use the embosser in ON-LINE mode.
- Check that the main AC Voltage corresponds to the value indicated in the plate. Before proceeding, note down the information contained in the paragraph “WARNINGS AND INSTALLATION PRECAUTIONS”
- Connect the power cable



CAUTION:
**CONNECT ONLY TO SYSTEMS PROVIDED WITH GROUNDING CIRCUIT
COMPLIANT WITH THE NATIONAL SYSTEM REGULATIONS**



CAUTION:
**THE SERIAL CABLE MUST BE CONNECTED ONLY WHEN THE MACHINE IS
OFF.**

4.5 Connection to a computer

The **ME550** can be supplied with a 2 m long cable (optional) for USB connection. If this length is not enough, it is necessary to use an extension cable not longer than 15 meters, respecting the corresponding connections

4.6 Warnings and installation precautions

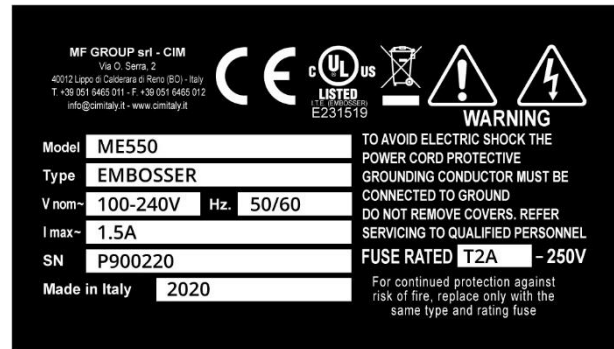
The identification plate located in the rear panel indicates the serial number, the type of machine, the power voltage and the absorbed current. Thus, check that the power source is compatible.

Before turning the machine on, make sure that the clamp retainer pin has been removed and that all cables have been properly connected.

The layout of the identification plate is as follows:

After the Corporate name on the plate there are 7 embossed fields described below:

Model: Embosser model
 Type: Machine Type
 V-nom: Power Voltage
 Hz: Supply Frequency
 I_{max}: Absorbed Current
 SN: Serial Number
 Made in Italy Year of construction
 Fuse Rate: Rating of the fuse



If the supply voltage is more than 20% higher than base voltage, the safety quick-acting fuse might cut off the current.

To replace it remove the power plug and insert the tip of a flat-topped screwdriver in the space at the bottom of the plug entrance.

Lift the fuse holder extremely carefully until you can manually remove it.

Should it be necessary, please contact the Technical Service of MF Group – CIM division.



TO REPLACE THE FUSE USE ONLY FUSES OF THE SAME TYPE AND WITH THE SAME NOMINAL POWER.

Fuses Requisites:

Europe - IEC 60127 Approval

America - UL248-1 and UL248-14 Approval

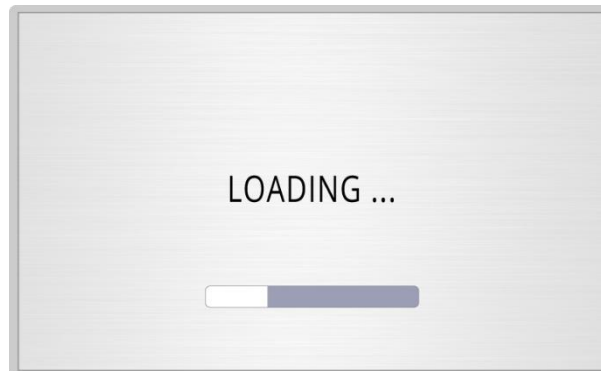
4.7 Power on and checking

After the installation you can get power to the machine turning the main switch ON

Start cycle:


When starting **ME550 DOG TAG** performs a reset and self-test cycle, without showing any message on the display.

After about 20 seconds on the display appear "LOADING" window:



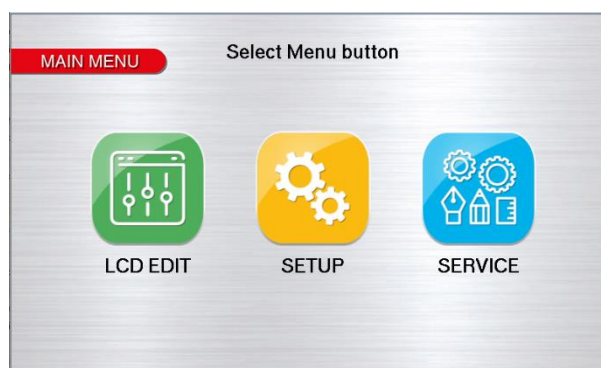
Once finished the start-up, on the start screen appear:



Touch  to activate **ME550 DOG TAG**.

The "reset" cycle start. Unused tag of previous job will discard, and the HOME procedure bring the axis at "0" position.

Once completed this step, **ME550 DOG TAG** is ready and the display goes on the Main Menu:



Now **ME550 DOG TAG** is ready to run both in STAND ALONE mode and ON-LINE mode, connected with a PC.

If you use our software **POWERTAG**, the system is already able to produce metal plates with a USB connection.

But if another application software is used, it is necessary to check the correct configuration of the parameters concerning the communication protocol.

To access those parameters, refer to the chapter "USE AND SETTINGS OF THE MACHINE".

Also refer to the chapter "USE AND SETTINGS OF THE MACHINE" to operate in STAND ALONE mode.

If the machine does not turn ON, make sure that the power outlet voltage is correct and check the integrity of the fuse.



CAUTION:
**IF THE DISPLAY LIGHTS UP BUT NOTHING APPEARS ON THE SCREEN,
SWITCH THE EMBOSSEER OFF AND CALL THE TECHNICAL SERVICE**



IMPORTANT:
**IF YOU HEAR UNUSUAL NOISES OR SOUNDS COMING FROM THE
MACHINE, SWITCH IT OFF IMMEDIATELY AND CALL THE TECHNICAL
SERVICE**

If the machine does not complete the cycle described above, then malfunctions might be occurring. In this case see the chapter Error messages and problem solving.

CHECKING THE FUNCTIONALITY OF SAFETY DEVICES

In order to guarantee the functioning of the machine in safety conditions it is necessary that the interlock switches of the panels work properly.

Before starting the work shift (at least once a day) switch the machine on and when it is in READY condition, open the front cover. Then check that the machine, after any inter-put, signals an alert situation "cover open or pin in its seat". Close the cover and press RETURN; the machine will run a reset cycle to go back to the READY condition.

If the machine does not do as described above, this means that the safety devices are not operating correctly. In this case, switch the machine off and contact the technical service.

5. Human Machine Interface

5.1 Introduction

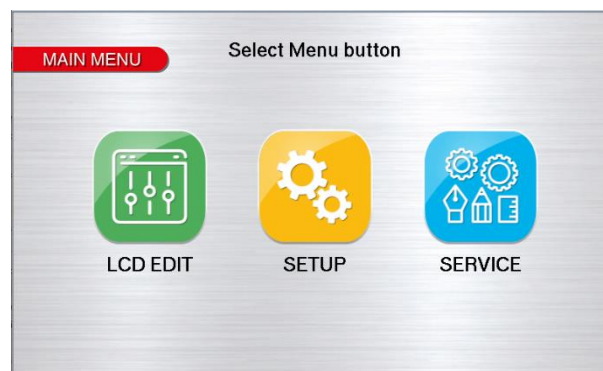
ME550 is a highly technological embosser that offers maximum functionality and wide operability to meet all the requirements of the metal plates embossers industry.

The machine allows to set up and perform a job, set its options and parameters, also verify the functioning of some of its electrical and mechanical components.

To do so the operator uses the console located on the front side of the panel.

5.2 Main screen

This screen is always displayed by the embosser except when you enter one of the functions of the "MAIN MENU".



When the embosser is in READY status, the display shows "MAIN MENU", thus allowing the user to access the various functions available on the machine.

Simply press on the icons on the touch screen corresponding to the required option.

It is possible to access it also when the machine is in ON status.

The functions contained in the "MAIN MENU" are:



LCD EDIT

Option for the user to plan work and start production.



SETUP










Option for the user but especially for specialized technical staff to set up the various parameters and the machine configuration.




SERVICE

Option for specialized technical staff to check the functionality of the various machine components and run possible updating.

Here a list of main icons and related function you will find move through the screens.

Icon	Function key	Description
		Return to Main Menu
	[ESC]	Back to previous page
	[Left arrow]	Go to previous page
	[Right arrow]	Go to next page
		Start the job
		Pause the job
		Stop the job
		Tag preview
		Edit the highlighted field

5.3 LCD Edit

From MAIN MENU' press  or **[F1]**.

Through the various functions present in the LCD EDIT menu it is possible to produce tags in STAND ALONE mode.

This option provides all those functions necessary to create, set up and perform a job.

The option displays the following screen, showing the contents of its menu:



LCD EDIT menu consist of 5 main functions:


- TAG [F1]
- PREVIEW [F2]
- FORMATS [F3]
- AUTOMATIC JOB [F4]
- SAVE JOB REPORT TO USB [F5]

To access one of these, just press desired Icon or functional key on the external USB keyboard if connected.

5.3.1 Tag [F1]

It allows the manual entering of data in the fields of the opened format.


The default format is showed in the “Formats” menu option and the screen opened shows the format number in the heading.


From the “LCD EDIT” menu press  or [F1]




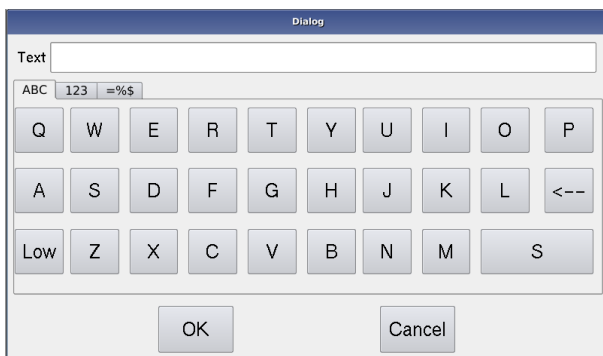
Each row represents and defines a punching field.

- **Format name** → Name of the Format
- **Card type** → Type of Tag (Dog Tag or Red tag)
- **Card material** → Material of the Tag
- **Card number** → Number of Tag to print
- **01 to 06** → Row of text to print

Press key  to show a preview of the Tag

To emboss the entered data press: 

Touch the field to edit and press  or [F1]



Using the virtual Keyboard or the external keyboard, you can write the required text.

NOTE:

The maximum number of characters that can be entered depends on the definition of the field in the “Formats” option.


If you press key ESC, the entered data are not saved and after leaving the box you return to the previous condition.

Move on the second row using the touch screen of the arrow keys on the external keyboard.


To enter new data, repeat in the same order the steps described above.

5.3.2 Preview [F2]

The function is used to view in advance the tag to be produced and then make possible changes.

From the “LCD EDIT” press  or [F2]

Preview tag retrieves the active selected format used to display the contents of the fields and their layout on the tag (card-layout).

To exit “Preview tag” and go back to LCD EDIT press key 




The screen generated by “Preview tag” displays the tag to be produced showing the positions and contents of each field, both variable and protected, or the counter.

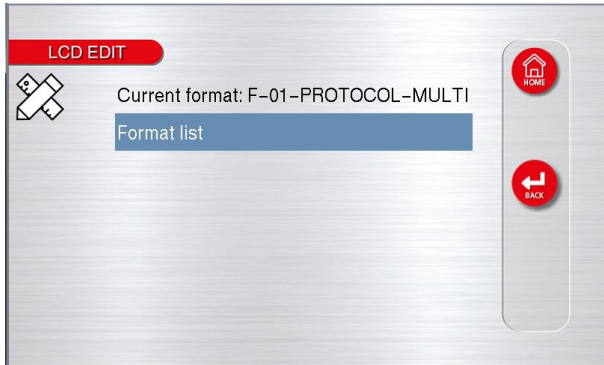
5.3.3 Formats [F3]

This function allows to create, modify and remove print formats.




From “LCD EDIT” menu, press  or [F3]

The formats have the same structure and layout of a tag, defining the position of the required text fields. Each field is provided with specific settings, such as coordinates, spacing, numbers and type of characters.

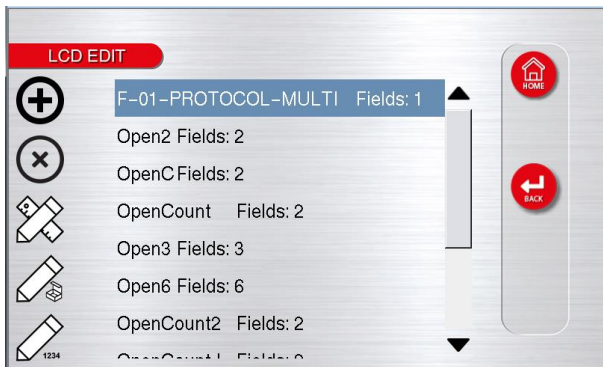


First row shown the actual format.



Press key  on first row a sub menu appears to select other formats

Second row “Format list” shown the list of formats and their options.



NEW [F1]

It allows to create a new format, giving the name to the format and defining the number of fields.

The newly created format will be set as active format.

NOTE:

The fields will then be defined in the Fields utility.

The format is thus created and enabled.

NAME → Box where the name is given to the format.

The name cannot be longer than 19 alphanumeric characters.

Only the first 14 characters will be displayed in the menu.

FIELDS → Box where the number of fields of the format is

indicated.

The maximum number of allowed fields is 26.

N° OF COPY → Box where the quantity of copies to be produced of the same tag is indicated.

(The maximum number of copies is 999).

INCREMENT COUNTER → It enables the increase of counters in the defined fields during the duplication of the same tag.

The option is enabled only when the number of copies is different from 0 (zero).



DELETE [F2]

It allows to remove a format previously introduced.

NOTE:

If the format to be removed is the active one, it will be necessary to enable another one to print in standalone mode.



EDIT [F3]

It allows to view and modify an existing format, both in the structure and in the options.

NAME → Name of the format retrieved.

In this box it is possible to give a different name to the format.

FIELDS → Number of fields present in the format.

In this box it is possible to vary the number of fields present.

N° OF COPY → Quantity of tags to be duplicated.

In this box it is possible to change the number of copies of the same tag (duplicates).

INCREMENT COUNTER → It allows to enable or disable the increase of the counters on defined fields during the duplication of the same tag

The option is active only when the number of copies is different from 0



FIELDS [F4]

It allows to define the structure of the embossing fields of a specific format.

The retrieved format is the one where the cursor bar is positioned.

NAME → Box where the name is given to the field.

The name cannot be longer than 19 alphanumeric characters

NOTE

When opening the Fields screen, the field already has a generic name consisting of two identical letters, assigned in alphabetical order when the format is being created.

It is advisable to change it, choosing a name that can allow better identification

CENTERED → The text will be printed in the middle of the row

INTERCHAR SPACE → Box where the spacing between two adjacent characters is specified (distance between one character and the other).

The value is defined according to the specification "characters per inch (dpi)".

Usually the value of the spacing for characters of the type Dog Tag and Simplex is 7, while for those of the BLOCCO type the value is 10-11.

Note 1

The smaller is the value and the closer will be the characters embossed on the tag.

Consequently, the bigger is the value and the further will be the embossed characters.

Note 2

The spacing between characters depends on the number of motor steps required to move the tag between 2 adjacent characters.

The motor steps are identified as "constant". A 07 constant produces a spacing between the characters equal to 10 dpi, while a constant of 10 produces a spacing of 7 dpi. Each motor step (01 constant) is equal to a distance of 0.36 mm.

The following chart can be used to assign the value of the spacing between the characters.

Spacing Table			
Constant	Characters/inch	Characters/mm	MAX (es. con X=60)
05	14,4	5,56	28
06	11,7	4,61	23
07	10	3,93	20
08	8,8	3,47	17
09	7,82	3,08	15
10	7,04	2,87	14
11	6,40	2,52	12
12	5,85	2,31	11
13	5,42	2,14	10
14	5,03	1,98	10

X → Box where the starting point of the field along the X axis coordinate is indicated.

The value can be indicated in tenths of millimetre (Dmm) or hundredths of inch (inch) according to the unit of measurement set in SETUP under the heading "Configuration".

That value is the distance between the left edge of the tag and the left side of the character.

For reasons due to the tag structure, it is not possible to emboss below these values:

4 mm (about 0,16 in inches) for both Dog Tag and Red Tag

Y → Box where the starting point of the field along the Y axis coordinate is indicated.

The value can be indicated in tenths of millimetre (dmm) or hundredths of inch (inch) according to the unit of measurement set in SETUP under the heading "Configuration". That value is the distance between the lower

edge of the tag and the lower side of the character.

For reasons due to the tag structure, it is not possible to emboss below these values:

4 mm (about 0,16 in inches) for both Dog Tag and Red Tag

MAX CHARS → Box where it is possible to choose the number of characters of the field. It is not possible to type in a value higher than the one indicated beside.

14 for example, is the maximum value of the number of characters beyond which MAX cannot be set.

The value is automatically calculated based on the tag size, the starting point of the field along the X axis and the spacing between one character and the other.

FONT → This is characters set installed on the machine

TYPE → Box where the type of field is defined:

- Variable
Field where the data to be embossed are entered. The data can be entered manually or loaded from a data base.
- Protected
Field with fixed text where the contents cannot be modified
- Counter
Field with counter function. The number of the counters used is assigned when closing the panel, while its specifications are defined in the "Counters" utility
- Duplicate
Field where the contents are a copy of those of another field.



COUNTERS [F5]

It allows to define the counter specifications.

Also, the main screen of COUNTERS like the main screen of FORMATS is displayed as a chart, made up of 4 columns, each with its own heading. Each line represents and defines a counter.

The maximum number of counters available for the different uses is 4.

Move along the counters list until you reach the required counter, then press [F1].

VALUE → Box where the starting value of the counter is indicated.

NOTE:

The length of the counter, that is the number of digits that make it up, is assigned during the field definition in the FIELDS utility

INCREMENT → Box where the incremental value of the counter is indicated.

FILL WITH 0 → Box that enables to fill with zeros the remaining digits of the counter that have not been used yet.

Example:

Counter length = 4

Option = Yes 0003

Option = No 3

JUSTIFY → Box that allows to define the alignment of the counter digits inside the field.


Right alignment

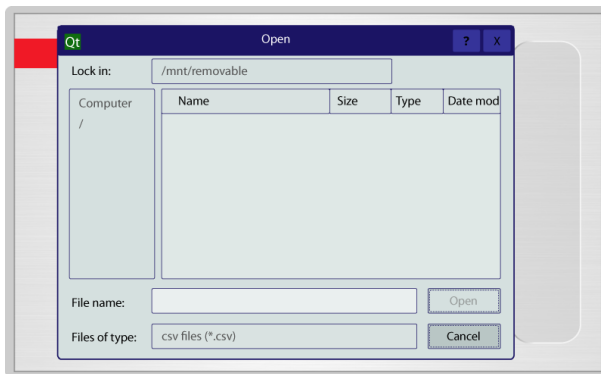
Left alignment

This option is valid only when “Fill with 0” is equal to NO

5.3.4 Automatic job [F4]

This function that allows to launch from a USB FLASH PEN DRIVE the production of tags by retrieving the data from a data base file with the extension .csv

From the “LCD EDIT” menu press  or [F4]



It is possible to use a fixed job in the machine memory (OPTIONAL)

Switching off the machine implies deleting the print queue and making the log file saving impossible.

The CVS (Comma Separator Value) data files can be generated through commercial application software (Excel, Access, Notepad...) or through the application software PowerTag lite.

The CVS file consists of records (lines) separated from each other by a CR (Carriage Return). Each record contains data that might be divided in fields by a separator such as “semicolon” (;) or tabulator.

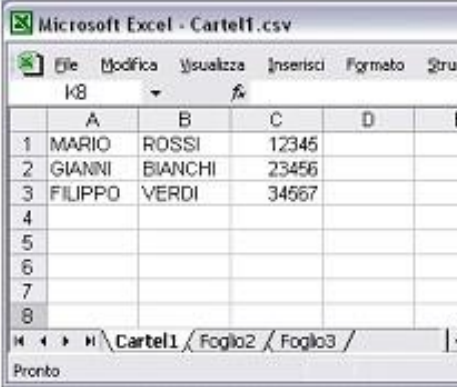
To create a .csv file with Notepad enter/edit the data as shown in the example. On each line enter the data in sequence separated by tab or by semicolon” (;), except at the end of the line. A tag corresponds to each line and each text adjacent to a tab or semicolon corresponds to a field.



Saving this file with csv extension on a pen drive will make it possible to print three tags with names, surnames and serial numbers set as in the example.

To create a csv file with Excel, enter/edit the data as shown in the example. Each line corresponds to a tag and each cell corresponds to a field.

5. Human Machine Interface




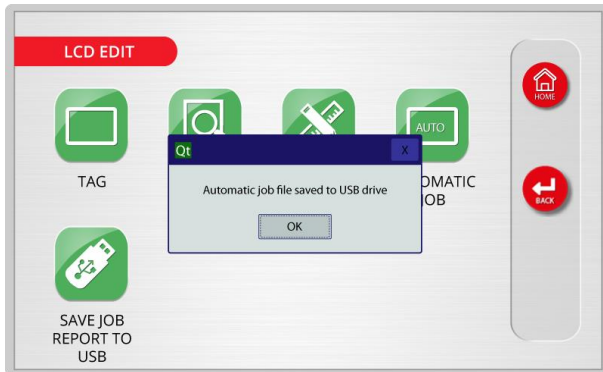
The screenshot shows a Microsoft Excel window titled "Microsoft Excel - Cartell.csv". The menu bar includes "File", "Modifica", "Visualizza", "Inserisci", "Formato", and "Stru". The status bar at the bottom shows "Pronto". The spreadsheet contains the following data:

	A	B	C	D	E
1	MARIO	ROSSI	12345		
2	GIANNI	BIANCHI	23456		
3	FILIPPO	VERDI	34567		
4					
5					
6					
7					
8					

5.3.5 Save job report to USB [F5]

The option allows to generate and save only on a USB FLASH PEN DRIVE, a log file.


From the “LCD EDIT” menu press  or [F5]



The file contains the information concerning the processed tags, both the produced ones and the rejected ones and the possible errors that have been generated and solved during the machine operating phase.

The aim is to provide the operator with an instrument that allows them to control production and work out and draw up possible statistics

5.4 Setup

From MAIN MENU' press  or [F2]

The SETUP option allows to set and modify the machine parameters and to define some elements of its configuration so that it can guarantee the maximum performance in terms of quality and flexibility and to adapt to the different production requirements of metal tags producers.

As this option deals with parameters that determine the proper functioning of the embosser, the option must be used by specialized technical staff or at least under their supervision.

For this reason, it is protected with a password.



SETUP menu consists of seven main functions:

- CONFIGURATION [F1]
- LAN [F2]
- MECHANICAL PARAMETERS [F3]
- PROTOCOLS [F4]
- EMBOSSING WHEEL [F5]
- TOP TRANSLATION TABLE [F6]
- SAVE CONFIG LOCALLY [F7]


To access one of these, just press desired Icon or functional key on the external USB keyboard if connected

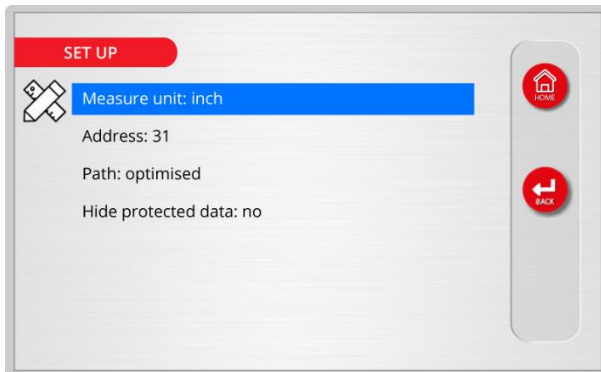
All the functions present in the "SETUP" menu must be set only by qualified staff or at least under their supervision.

The wrong setting of some parameters can result in a wrong functioning of the embosser and it can cause serious damages. Some parameters are set directly by the producer

5.4.1 Configuration [F1]

The option allows to set the general parameters of the machine.


From "SETUP" menu press  or [F1]

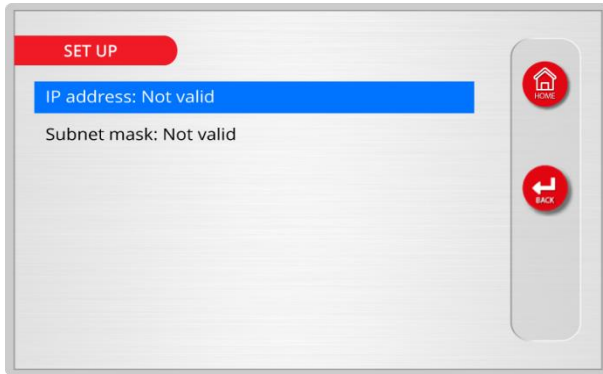


- **Measure unit**
 Unit of measurement adopted for X and Y coordinates of the fields.
 Unit in millimetres or inches
- **Address**
 communication address with PC
- **Path**
 It sets the way to drive the axes: by punch, by line or according the path optimization algorithm.
- **Hide protected data**
 It does not display the data of protected fields.
 When leaving the page, the saving of the data is required if they changed. By pressing the ESC key, the modifications are cancelled while by pressing the ENTER key they will be saved.

5.4.2 Lan [F2]

The option allows to set the standard communication parameters of the embosser to connect it to a computer and respect the specifications of the application software

From "SETUP" menu, press key:  or [F2]



IP address: valid IP address

Subnet Mask: Valid subnet Mask



IP address and Subnet Mask parameters will appear when the machine is correctly connected on a Lan
 If not, the message "Not valid" will appear.

5.4.3 Mechanical parameters [F3]

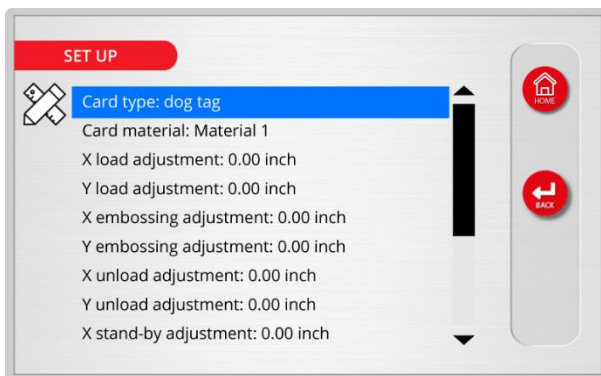
This menu allows to set some mechanical parameters of the machine.



From "SETUP" menu press key: or [F3]

In this option the axes offsets are defined, that is the starting points of the axes are regulated so that they coincide with the values of the coordinates of the fields assigned both to the DOG TAG plates and to the MEDICAL RED ALERT TAG plates.

Warning: assigning non-correct values causes the malfunctioning of the embosser and possible damages to some of its components, therefore we strongly recommend that only specialized technical staff use it.



The mechanical adjustments menu consists of 10 items:

- X load adjustment
it allows to adjust the tag picking position along the X axis.
- Y load adjustment
it allows to adjust the tag picking position along the Y axis.
- X emboss adjustment
it allows to align the zero of the embossing fields with the left edge of the Medical Red Alert Tag plate
- Y emboss adjustment
it allows to align the zero of the embossing fields with the bottom edge of the tag.
- X unload adjustment
it allows to adjust position of release of the tag along X axis.
- Y unload adjustment
it allows to adjust position of release of the tag along Y axis
- X stand-by adjustment
it allows to adjust starting position of the clamp along X axis
- Y stand-by adjustment
it allows to adjust starting position of the clamp along Y axis
- Punch normal char adj
it allows to adjust the pressure that the hammer must exert on standard characters during the embossing of Dog Tag plates. With this function the relief of the embossed character or the depth of the engraved character can be adjusted
- Punch OCR char adj


it allows to adjust the pressure that the hammer must exert on characters block during the embossing of Medical Red Alert Tag plates. With this function the relief of the embossed character or the depth of the engraved character can be adjusted.

Reversed char

It indicates if the types of punches present on the machine are reversed so that the relief is downwards. This function is adopted if you need to write very close to the bottom edge of the tag.


Punches are OPTIONAL

To change one of these parameters, touch the screen on the field you want to change (or use the arrow

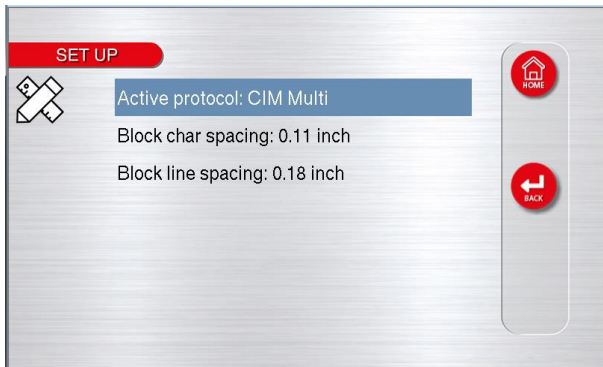
on the external keyboard) then press:  or [F1]

5.4.4 Protocols [F4]

The function allows to select and set in the embosser, one of the communication protocols that can be used with this type of machine.

From "SETUP" menu, press key:  or [F4]

This guarantees flexibility and adaptability of the embosser to the various interfacing requirements of the user.



- Active protocol
it allows to select the protocol to be used:
 - CIM Multi
- Block char spacing
it allows to define the embossing spacing of block or OCR characters.
- Block line spacing
it allows to set the line spacing of the block or OCR characters.

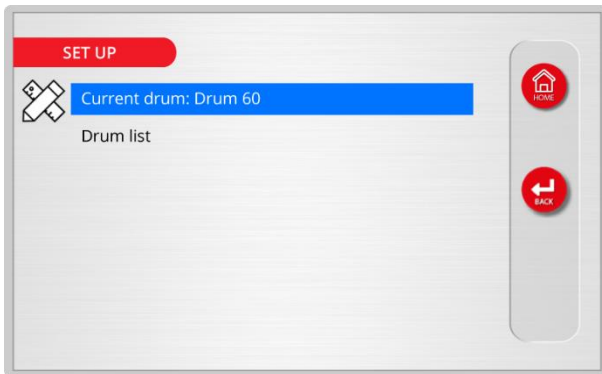
5.4.5 Embossing wheel [F5]

It indicates which drum configuration and characters layout are installed on the machine.



From "SETUP" menu press key: or [F5]

The characters setup in the drum layout must match perfectly with the characters physically installed in the embosser in type, font, and position.

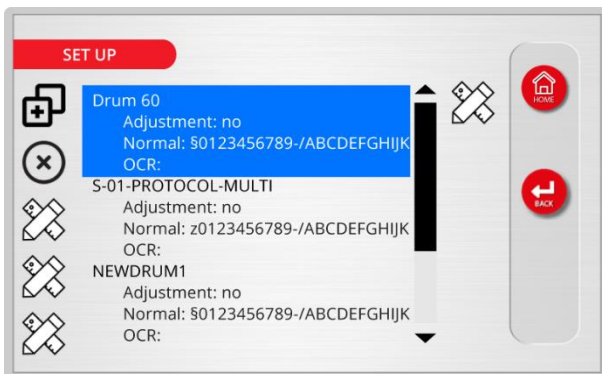


Current drum: it specifies which drum is selected.

Drum list: it specifies es available drums



When a drum is selected, press to show screen below:



[F1]

Create a new configuration



[F2]

Delete an existing configuration



[F3]

Edit a new configuration



[F4]

It allows to set position of characters on the drum




[F5]

It allows to adjust pressure for each character if “punch adjustment” is selected

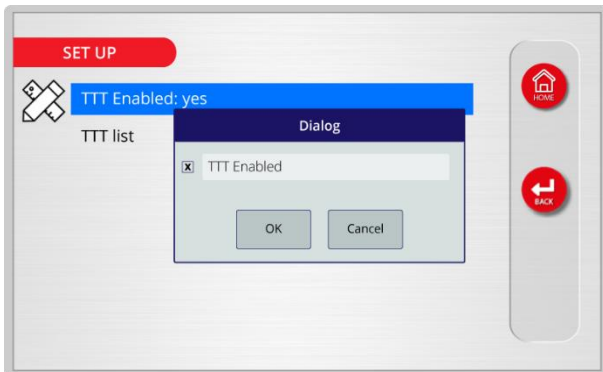
5.4.6 Top Translation Table [F6]

The table shows the association of the input characters with the output characters, thus allowing to change a character into another whenever it is necessary.

From "SETUP" menu press key:  or [F6]

This option can be used to turn lowercase characters into capital characters or convert the specific code of a character in the corresponding one in ASCII.

The table contains all the receivable 256 characters divided by value and symbol.

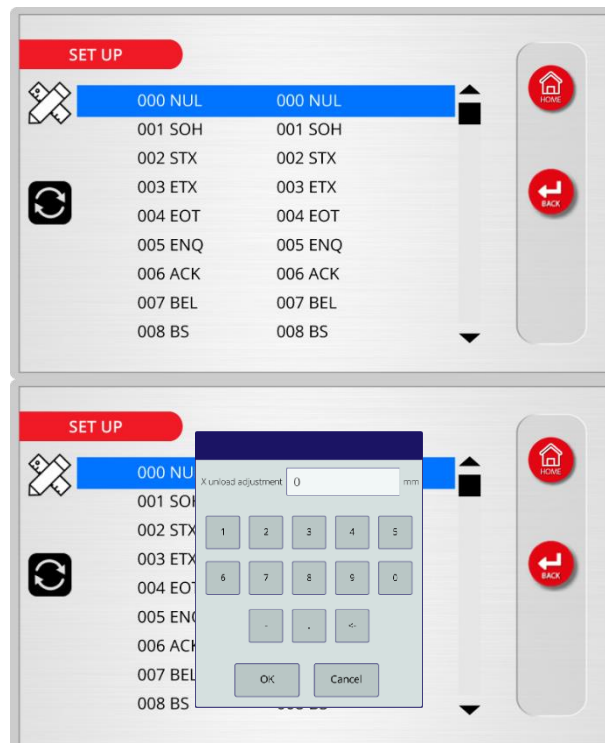


- TTT Enable
it enables/disable the TTT function to convert the input data characters with the set output ones.
- TTT list
list of the available TTT

Select desired character by


pressing:  [F1]

Assign new value and press "OK"
 You can use also the external keyboard if connected.



5.4.7 Save config locally [F7]

It allows to save on the machine's memory all parameters and setting.

From "SETUP" menu, press:  or [F7]

Automatically start the procedure that save all the data on the local memory:



ATTENTION:

every time the key is press, the old file is overwritten

5.5 Service



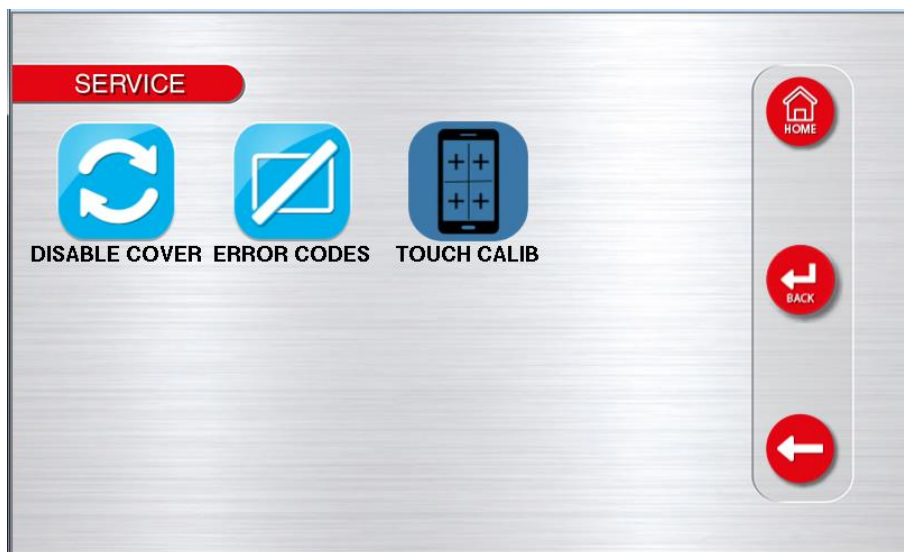
From MAIN MENU' press: [F3]

The SERVICE option contains a series of functions for the analysis and updating of the embosser firmware and it is meant only for the specialized or authorized technical staff.

For this reason, some functions are protected by a password



PAGE 1:



PAGE 2:



Use arrows to switch pages.


SERVICE menu consists of eleven main functions:

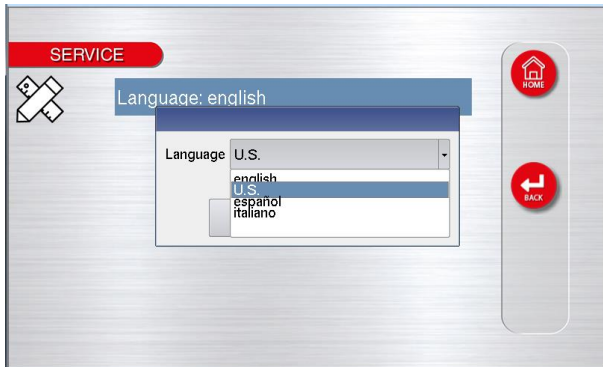
1. LANGUAGE [F1]
2. CARD TEST [F2]
3. OPERATIONAL MODE [F3]
4. SYSTEM INFORMATION [F4]
5. COUNTER [F5]
6. TEST [F6]
7. SAVE CONFIG IN USB [F7]
8. UPDATE SOFTWARE CPU1 [F8]
9. DISABLE-ENABLE COVER [F9]
10. ERRORS CODE [F10]
11. TOUCH CALIBRATION [F11]


To access one of these, just press desired Icon.

5.5.1 Language [F1]

The option allows to choose the language that will be used to display all the messages and menus present in the machine.

From SERVICE menu, press:  [F1]



To select language, press:  or [F1]


Languages available:

- English
- Spanish
- Italian

5.5.2 Card test [F2]

This option allows to perform some embossing tests that enable the specialized technical staff to check the proper functioning of the embosser.

This option is only for the specialized technical staff or for authorized people


From SERVICE menu, press:  or [F2]

5.5.3 Operational mode [F3]

This option allows to set some operating modes during the stages of the tag embossing process.


There are three working modes: CONTINUOUS, PAUSE, WITHOUT TAG and all their combinations.

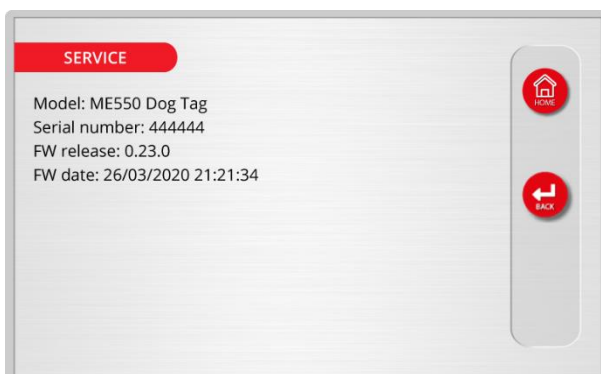
This option is usually only for specialized technical staff or for authorized people.

From SERVICE menu, press:  or [F3]

5.5.4 System information [F4]

The option provides technical information about the embosser, such as the serial number and the version of the CPU boards present in the machine and their firmware as well as the memory state.


From SERVICE menu, press:  or [F4]

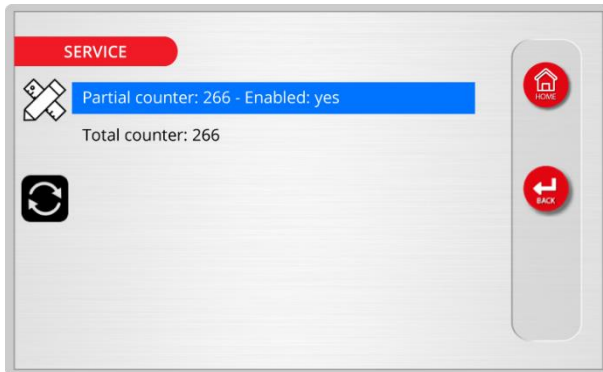


5.5.5 Counter [F5]

This option allows to view the total and partial counters regarding the number of the tags produced by the embosser.

The two counters are independent from those connected to the single jobs. The option allows to enable and show on the display only the partial counter and to reset it any time the operator needs to do it.

From SERVICE menu, press:  or [F5]



Partial counter

displays the number of tags produced from the last reset


- **Total counter**

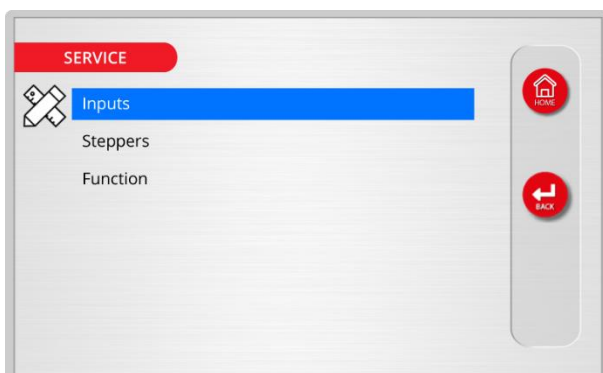
displays the total number of tags produced by the embosser since its installation

5.5.6 Test [F6]

This option allows to perform some tests on several components of the embosser helping the specialized technical staff to verify their proper functioning.

This option is only for the specialized technical staff or for authorized people and it is protected by password in some of its parts.

From SERVICE menu, press:  or [F6]



- **Inputs**

displays the status of the inputs

- **Steppers**

allow the test for each stepper motor the embosser since its installation

- **Functions**


5.5.7 Save config to USB [F7]

This option allows to save on a USB FLASH PEN DRIVE all the parameters and settings of the embosser. Whenever saving, the previous file, if present, is overwritten.

The saved file allows to restore the embosser to its original or previous condition, in case the parameters or settings have been accidentally modified or even lost.

This option is only for the specialized technical staff or for authorized people



From SERVICE menu, press:  or [F7]


5.5.8 Update software [F8]

This option allows to update the firmware and the setup file of one of the CPU boards installed on the machine (CPU).

This option is only for the specialized technical staff or for authorized people and it is protected by password.

The careless use of this option might cause the deletion or the partial loss of the machine program and consequently the machine would be out of order




From SERVICE menu, press:  or [F8]

5.5.9 Enable-Disable cover [F9]

This option allows to inhibit the control of the switch that detects the opening of the front panel, by disabling the safety device that stops the operation of the mechanical parts of the machine and letting it emboss.

This option is meant only for the specialized technical staff or for authorized people and it is protected by password.




From SERVICE menu, press:  or [F9]

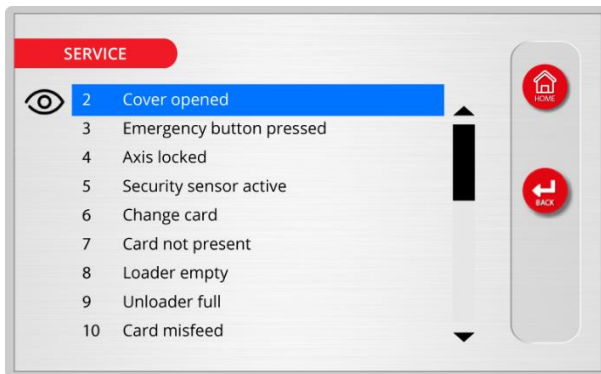
5.5.10 Error codes [F10]

This option allows to display the list of the codes of the errors that can occur in the embosser and it makes the operator understand the possible cause that generated the error.

Check chapter 8 “ERROR MESSAGE” for the full list of the error codes.




From SERVICE menu, press:  or [F10]




The first column indicates the numeric code of the error generated by the embosser because of a failure.

The second columns describe the type of error associated to the code.

Press icon:  [F1] to show a detailed description of the alarm

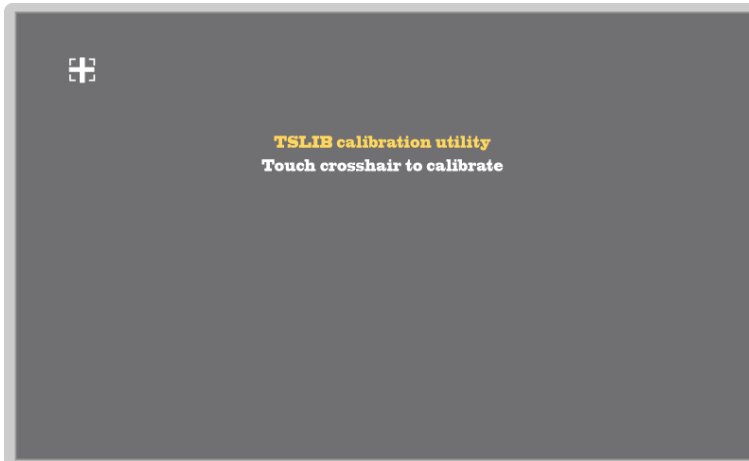
5.5.11 Touch calibration [F11]

This function allows to calibrate the display LCD touch screen

From SERVICE menu, press:  or [F11]

To come back, press:  or (ESC)

Touch the cross that appear on the screen (in different positions)



At the end of procedure, machine restart automatically.



Calibration data are stored on the CPU.

In case of CPU replacement, it may be necessary to perform the calibration procedure.

6. Tag production

6.1 Tag production in STAND ALONE mode

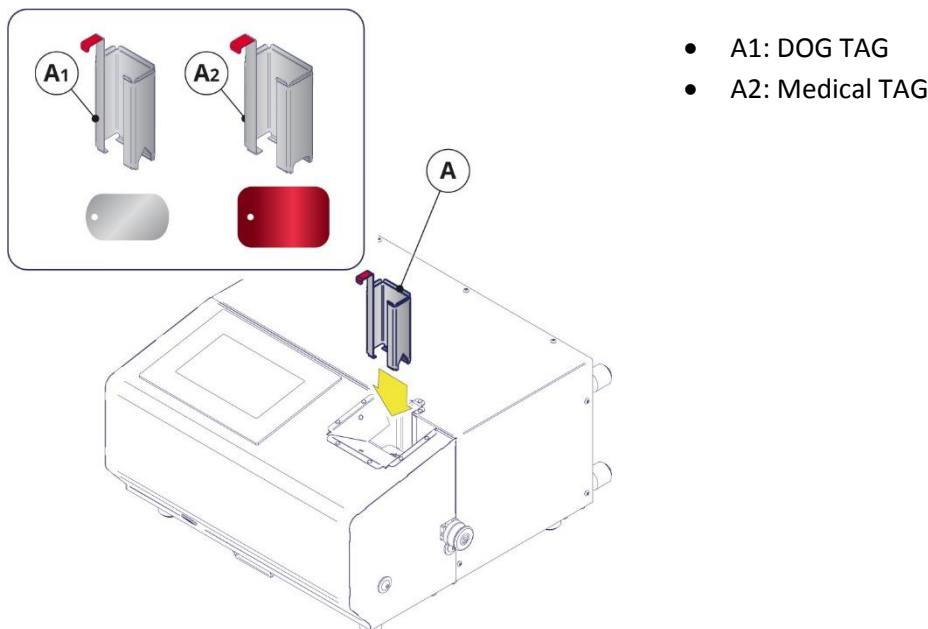
To produce the tags in STAND ALONE mode follow, the instructions below.

For more information about the various steps, refer to the chapter "USE AND SETTINGS OF THE MACHINE".

6.2 Loading tag

ME 550 DOG TAG is supplied with 2 plate loader TAG.

Machine can recognize automatically which one is loaded:




The production of tags in STAND ALONE mode consists of four main stages, with a variation in the data source part.

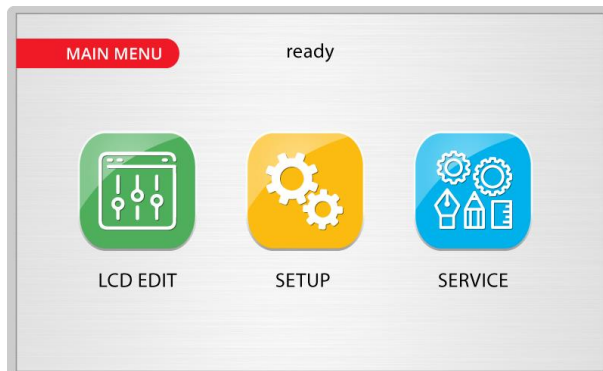
In this stage data can be entered manually and then produce only the same tag or they can be taken from the data base and then the production cycle of the tags can be launched.


The four main stages are defined as follows:

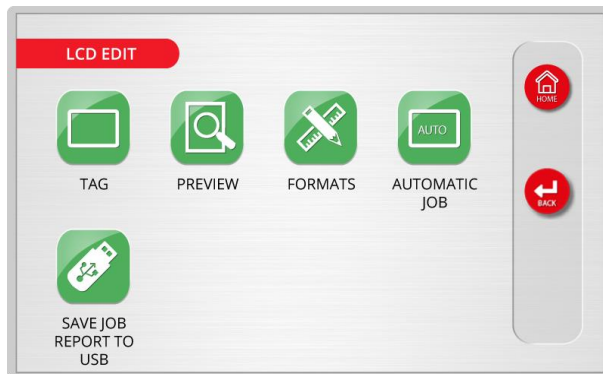
- Creation of the format and definition of its fields
- Setup of the active format
- Entering data manually or loading data from data base
- Tags printing


6.3 Format creation and fields definition

From MAIN MENU, press  [F1]



From LCD EDIT press  [F3]



In format menu select "Format list", press  [F1].

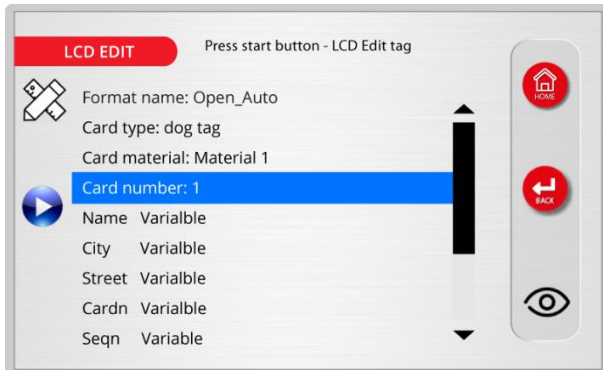
Refer to **paragraph 6.3 Formats** for a detailed list of the parameters and value

6.4 Entering data manually and embossing tag



From LCD EDIT, press **[F1]**

In the **TAG** menu, move on the field to be modify and touch it




Use the virtual keyboard (or an external USB keyboard if connected) and enter desired value.




Press "OK" to confirm and proceed with next value

Proceed as described in previous points to edit all the fields


Press  for a preview of the tag



To emboss the tag with the entered data, press 

6.5 Loading data from data base and embossing tag

Plug the USB FLASH PEN DRIVE in the suitable port.

From “LCD EDIT” menu press  [F4]

Select the file CSV you want to print.

Before starting the job, make sure that the database file structure is the same as the set active format (number and length of fields).





Press “OPEN”, the embosser starts producing the tag.

If you wish to suspend or interrupt the production press 

6.6 Tag printing

While embossing the tag, the machine shows on the display a progress bar indicating with a percentage the progress of the production process.

This is the list of the functions to manage the job:

-  Press it to restart printing
-  Press it to suspend printing
-  Press it to stop printing [ESC]
-  Press it to release the TAG and stop the job [A]

6.7 End of production cycle



The cycle ends with the ejecting of the card on the centre tray of the embosser as indicated in the picture.

ME550 DOG TAG ends its job and goes to the starting state READY.

If errors occurred during the cycle, the machine shows on the display the error code and asks if you prefer to repeat the tag or continue.

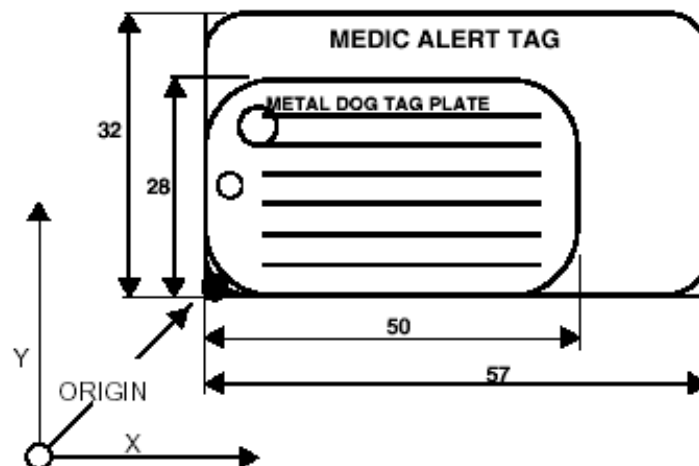
During the AUTOMATIC JOB PRODUCTION, the machine continues repeating the wrong tag independently and report the error in the file obtained with the "SAVE PRINTED CARDS" function.

The different error situations are described in the chapter 8: Error messages.



IMPORTANT:

The coordinates of the fields must take into consideration the tag formats managed by the machine



7. Internet of Things

7.1 FTP machine accessibility

Machine support FTP interface to external host Personal Computer based on Ethernet interface.

All operations are protected by User and Password.

7.2 Remote access to User Interface thru Ethernet o Wi-Fi connectivity

Based on VNC technology, Machine can operate by LAN connection in order to remote the control of it (Display and Touch operations are available in remote Personal Computer).

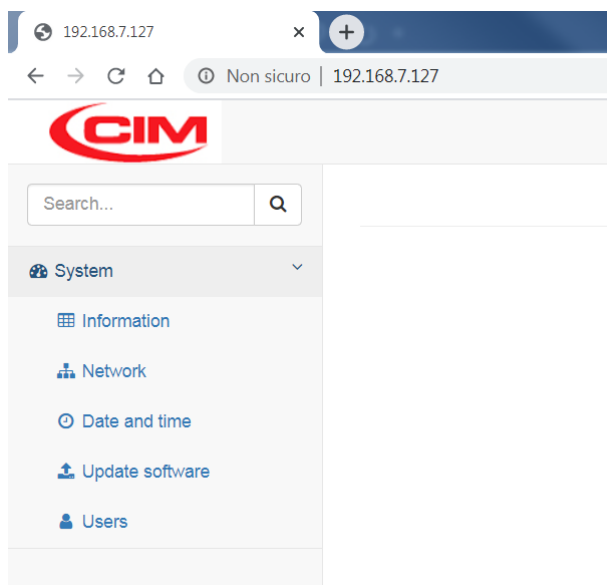
7.3 Web Services availability

Multilevel User Profile management for Machine Configuration and IP Set-up.

Please refer to your network administrator to configure the machine with right IP address.

When the machine is connected to internal network (through ethernet cable or WiFi), it's possible to access to some of the features.

Use a Web Browser, type the IP address of the machine in the address bar and press Enter, then click on "System" to open the main menu:



The standard login User is set as "Guest".
With this user you can only read the information but no parameter's edit is allowed.

All the pages below are available only in READ mode.

No editings are possible when logged as a "Guest".

In order to edit parameters, you must log as "superuser".

To obtain the password for "Superuser" please send an email to:

cimtech@cimitaly.it

with serial number of the machine in the Object.

7.3.1 Information

On this page there are all the info related to hardware and software of the machine:

System information

Version	1.01.00
Compilation time	20/05/2020 11:16:09
	Linux diva 3.12.10-divelk-2.0.0-xeno2-00013-gd9ec202 #15 SMP Mon Oct 14 15:19:09 CEST 2019 armv7l GNU/Linux
PHP version	5.6.15
PHP pid	2100
Web Server	1.0.0
CPU	11 %
CPU model	ARMv7 Processor rev 2 (v7l)
Product	Metal Plate Systems
OS Version	02.20.00
OS Date	22/11/19
User language	it

	Free	Used	Total	% used
RAM	108.61 MB	132.5 MB	241.11 MB	54.97 %
HDD	29.81 MB	191.93 MB	221.74 MB	86.56 %

7.3.2 Network

Here you can check all the network parameters:

Network

Ethernet

Use DHCP

Address: 192.168.7.127

Netmask: 255.255.255.0

Gateway: 192.168.7.241

DNS 1: 192.168.7.5

DNS 2: 192.168.12.31

Wireless

Network: Available networks...

Key: []

Use DHCP

Address: []

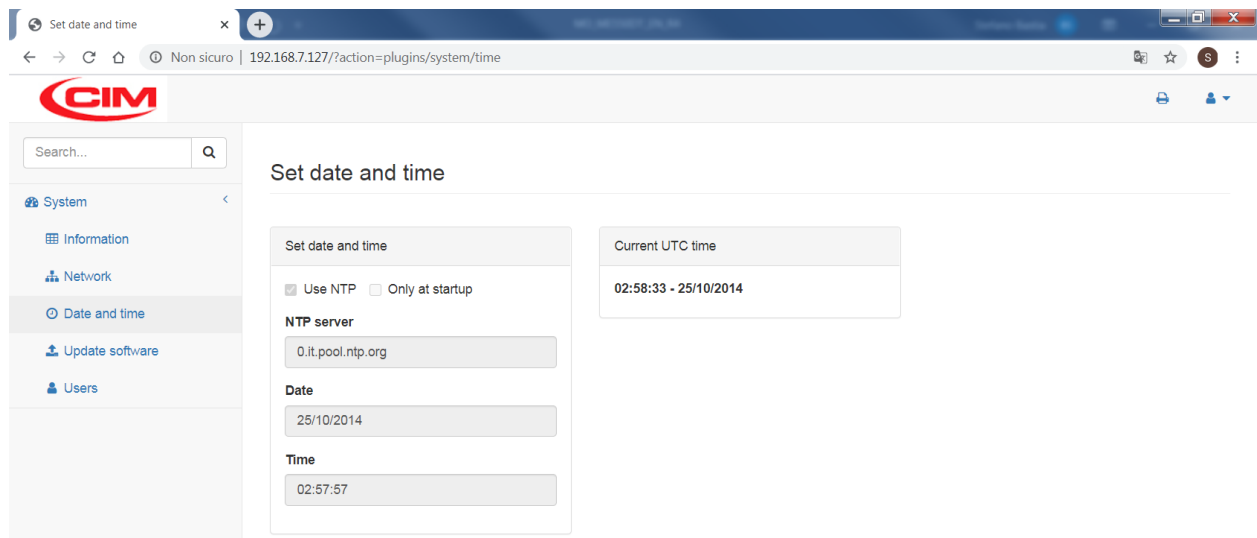
Netmask: []

Gateway: []

DNS 1: 192.168.7.5

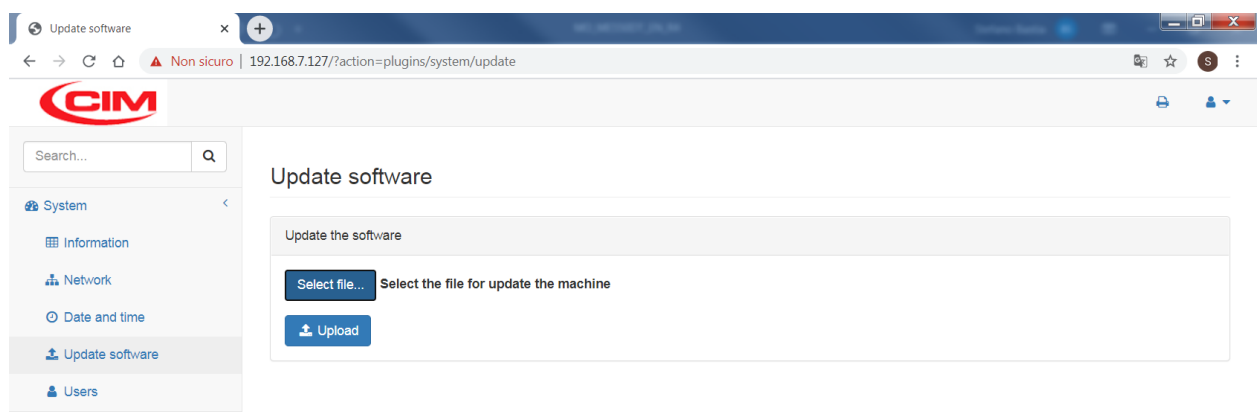
DNS 2: 192.168.12.31

7.3.3 Date and time



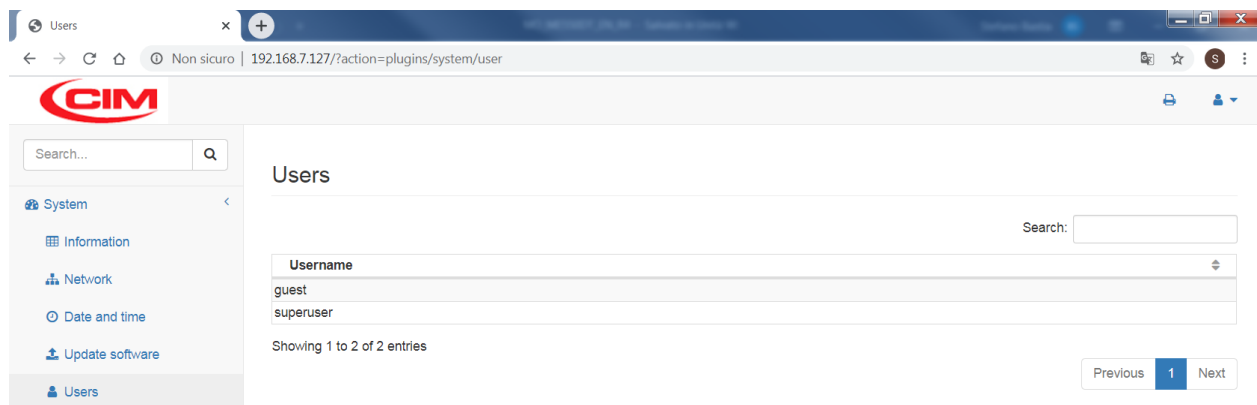
7.3.4 Update software

With this function it's possible update the software when available a new release:



7.3.5 Users management

Here it's possible check the User list.



8. Error message

8.1 Error messages and problem solving

In case of failure or operator's error the machine shows on the display the error code followed by a message that caused the interruption of the machine cycle

Touch OK to visualize a description of the error occurred

8.2 Error codes table

MESSAGE	DESCRIPTION	SOLUTION
time-out	Communication failed	
cover opened		Front Panel or carter open. Main switch broken
emergency button pressed		Unlock emergency button
security sensor active		
axis locked	Safety block not removed	Remove safety block
change card	Tag feeder is not the one selected in format	Change tag feeder
loader empty		Fill the loader with the plates
unloader full		Remove tag from exit loader
card misfeed	card not catched by the clamp	
motor x	error while reset motor X	Check photocell on axis X and motor
motor y	error while reset motor Y	Check photocell on axis Y and motor
motor z	error while reset motor Z (Drum)	Check photocell on axis Z and motor
motor clamp	error while reset motor clamp	Check photocell on clamp and motor
motor punch	error while reset motor punch	Check photocell on punch and motor

9. Maintenance

9.1 Preventive maintenance performed by operator

The operator must regularly perform the maintenance of the embosser to guarantee proper functioning of the machine.



IT IS FORBIDDEN TO REMOVE THE COVER AND THE INTERNAL PROTECTIONS OF THE EMBOSSER

For maintenance work inside the machine, except those indicated below, it is necessary to call the technical service.



ALWAYS REMEMBER TO SWITCH THE MACHINE OFF AND DISCONNECT THE POWER CABLE BEFORE STARTING THE MACHINE MAINTENANCE

Every week:

- Clean inside the machine removing the dust and metal residues. Use a brush to help.
- With a wet or damp cloth, clean the gummed roller located at the outlet of the loader.
- Do not use abrasive substances or materials or alcohol.

Carefully remove and clean the external grids of the extractor fans located in the rear part of the machine.

IF THE FILTERS ARE WASHED WITH WATER, THEY MUST BE DRIED. IF THEY ARE WET OR DAMP, THEY CAN CAUSE SHORT CIRCUITS AND IRREVERSIBLE DAMAGES TO THE MACHINE.

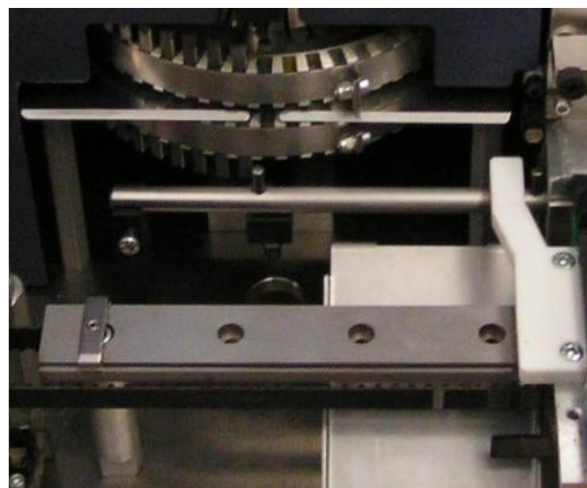
Every month or every 1,500 tags:

Lubricate slightly (just a few oil drops) the rail of the carriage of the X axis clamp after cleaning it accurately with a cloth and after removing the dust.

Then manually move the carriage to spread the oil evenly and check that the carriage slides smoothly.

If during this operation frictions occur, contact the technical service.

Use only liquid synthetic oil with a viscosity of about 60-68 mm²/sec at 40°.

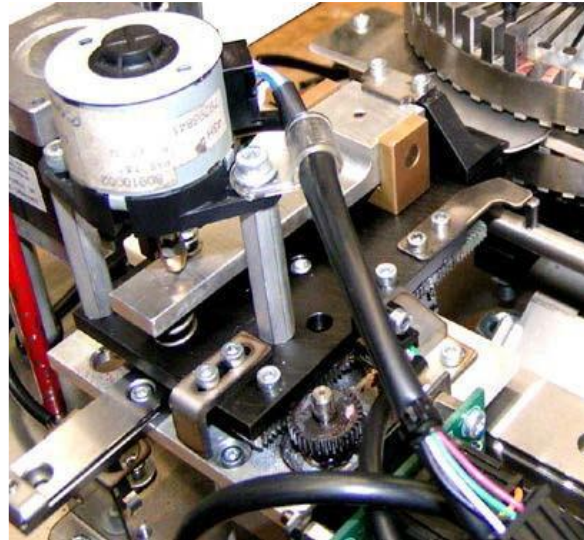


Lubricate slightly (just a few oil drops) the rail of the carriage of the Y axis clamp after cleaning it accurately with a cloth and after removing the dust.

Then manually move the carriage to spread the oil evenly and check that the carriage slides smoothly.

If during this operation frictions occur, contact the technical service

Use only liquid synthetic oil with a viscosity of about 60-68 mm²/sec at 40°



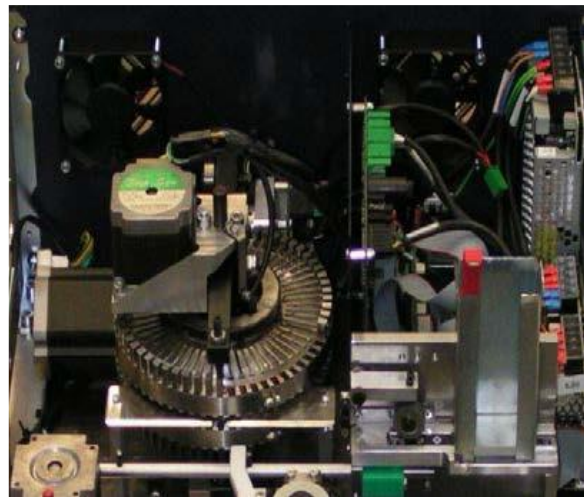
About every 6 months:

a greasing of the internal mechanical parts is necessary. However, it can be done exclusively by specialized technical staff.

Every year:

Have the specialized technical staff perform a complete preventive maintenance work, including a test of all the moving mechanical parts and their components such as belts, springs, bearings, bushings and characters.

The maintenance should also include an inspection of all electrical supplies and the various setup parameters of the machine.



At the end of every maintenance work, switch the machine on again and check that when opening the front panel, the machine stops any operation in progress.

If it is not so, contact the technical service because some safety device might have been damage.



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Timbro rivenditore

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