

**User Manual for Agfa
:ELANTRIX 95 S / 125 S / 150 S
Plate Processors**

User Manual

USER MANUAL

(GB)



This manual has been published by

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CONFORMITY STATEMENT

The Manufacturer

LASTRA ATTREZZATURE S.r.l.
Via Lombardia, 45
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DECLARES UNDER ITS OWN RESPONSIBILITY THAT THE FOLLOWING
PRODUCT

OFFSET PLATE PROCESSOR

Mod. :ELANTRIX 95 S / 125 S / 150 S

TO WHICH THIS STATEMENT REFERS, COMPLIES WITH THE
REQUIREMENTS OF THE FOLLOWING CEE REGULATIONS:

- **MACHINE DIRECTIVE**, 98/37/CEE (EX 89/392/CEE AND SUBSEQUENT AMENDMENTS)
- **ELECTROMECHANICAL COMPATIBILITY DIRECTIVE (EMC)**, 89/336/CEE AND 92/31/CEE AND 93/44/CEE
 - EMISSION: EN 61000-6-3 (2001);
 - IMMUNITY: EN 61000-6-1 (2001); EN 61000-6-2 (2001);
- **LOW VOLTAGE EQUIPMENT (LVD)**, CEE/73/23 AND CEE/93/68
 - EN 60204-1 (1992);

Manerbio (BS),

LASTRA ATTREZZATURE S.r.l.
Managing Director
Carbonini Roberto

SAFETY INSTRUCTIONS

The person responsible for the operation and upkeep of the equipment must be fully acquainted with all aspects of its operation and must be skilled in its maintenance.

Personnel must know the following precautions and be aware of the problems connected with safety matters.

GENERAL

- It is advisable to wear safety glasses and gloves when maintaining or servicing the equipment;
- Do not wear ties, jewellery, or loose-fitting clothing whilst operating the machine.

ELECTRICAL

- All electrical problems must be resolved by qualified personnel.

MECHANICAL

- Keep hands, fingers and tools away from any moving parts.
- Replace all components after servicing.

CHEMICAL SAFETY

- Follow carefully as described in the paragraph **“CHEMICAL PRODUCT HANDLING”**.

SAFETY PRECAUTION SYMBOLS

The instructions given in this manual pertaining to safety are highlighted by graphic symbols. The explanation of which is given below:



This symbol indicates a danger situation, which may cause serious injury or death, if the precautionary measures indicated are not taken.



This symbol indicates a danger situation, which may cause damage to the processor and its components or to the operator.



This symbol is a warning to take the necessary safety precautions or reminds the reader to refer to further notes relative to the operation in progress.

GENERAL INFORMATION

MACHINE DESCRIPTION

Plate processors: ELANTRIX 95 S /125 S/ 150 S form part of the latest generation of automatic machines.

These machines permit enhanced performance whilst at the same time ensuring considerable savings in terms of materials and electricity.

Plate processors: ELANTRIX 95 S /125 S/ 150 S fully automatically develop, wash, gum and dry plates.

Plate processors: ELANTRIX 95 S /125 S/ 150 S are made using top quality materials, which are specified above normal design standards so as to ensure exceptional durability throughout the lifetime of the equipment.

The technical features of these machines, which are the best currently available on the market, are as follows:

- Grey PVC **tank**;
- EPDM rubber **rollers** with stainless steel pins;
- Side **casing** made of fibre-glass;
- Painted steel **structure**;
- Plexiglas **lids**.

The electronic system permits the control of all functions in a quick and accurate manner. With the possibility of optical fibre connection and data exchange simply using a PC, to ensure a high degree of interaction and facilitates possible future software upgrades.

The appearance has been chosen to render these processors both practical and pleasing to the eye. Special care was taken in the elimination of all projecting parts which may hamper normal operations.

The **central unit** of the process consists of a single-section frame made of PVC. All the other components, such as the rollers, tanks, electrical system, motors, pumps, lids support parts, actually rest against the frame itself.

The upper part of the processor is fixed to the support by means of four bolts, allowing easy separation of the two parts.

DEVELOPER SECTION

The plate is developed by means of immersion with a pump that keeps the liquid in circulation and which is also filtered.

There is a thermostat device, which controls the temperature in the developer tank.

The automatic replenishment system and a closure lid also ensures the long life of the developer.

Any excess developer is collected in an external container by means of an overflow system.



IMPORTANT

**Always ensure that the developer recovery container is never too full.
Regularly empty the drum.**

WASHING SECTION

There are two drilled pipes, positioned across the tank which sprinkle water on the upper and lower part of the plate to ensure it is thoroughly cleaned.

GUMMING SECTION

Two further rollers are located over the pair of rubber rollers, one has a velvet cloth in contact with the rubber roller and one in stainless steel, which is partially immersed inside a tank in which the finishing product circulates.

The finishing product may be either gum or thermal gum according to specific needs.

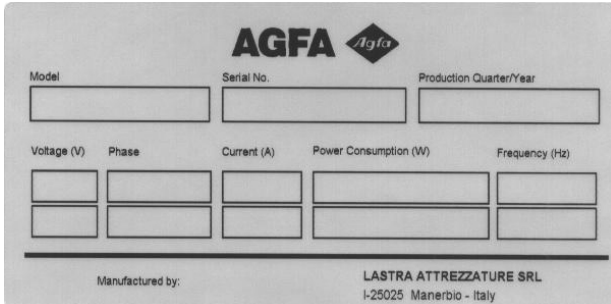
There is a pump for liquid circulation.

DRYING SECTION

The plate is dried on both the top and bottom. The air temperature is regulated by means of the electronic control device.

NAME AND RATING PLATE

In all communication with the manufacturer always refer to the data stated on the name and rating plate.



The image shows a name and rating plate for an AGFA machine. At the top left is the AGFA logo. Below it are three input fields for 'Model', 'Serial No.', and 'Production Quarter/Year'. Below these are five input fields for 'Voltage (V)', 'Phase', 'Current (A)', 'Power Consumption (W)', and 'Frequency (Hz)'. At the bottom, it says 'Manufactured by: LASTRA ATTREZZATURE SRL I-25025 Manerbio - Italy'.

(Positioned at the rear of the machine)

Figure 1

CHEMICAL PRODUCT HANDLING

The processor requires the use of chemical products (developers and gums) which may be dangerous, if handled without due care.



It is compulsory to always use protective glasses and gloves whenever contact is to be made with chemical products, particularly during the developer tank filling and emptying stages and on insertion of rubber pipes into the product container and during machine cleaning operations.

These products are harmful; do not swallow them or allow them to come into contact with the skin. If it does thoroughly wash the exposed area with cold water and seek medical attention in more serious cases.

It is however essential to follow the instructions for use provided by the manufacturer of these products, as indicated on the container labels.

OPERATING MODES

PREPARATION FOR USE

Ensure that the machine has been installed according to instructions.

- Place the excess developer drainage pipe into the corresponding drum (dark pipe);
- check that the outlet tap is closed;
- fill the developer tank with the required amount of liquid;



IMPORTANT

It is very dangerous to operate the machine without any liquids inside, as it may cause irreparable damage to the pumps.



ATTENTION

Before handling the necessary chemical for the operation of the processor carefully read the instructions provided in the paragraph headed CHEMICAL PRODUCT HANDLING.

- Ensure that the machine is perfectly level;
- Insert the suction pipe marked replenisher into the replenisher liquid drum (see service manual);
- Insert the suction pipe marked gum into the gum drum (see service manual);
- Also ensure that water comes to the processor at the required pressure;
- Also ensure that the electrical connection is correct;
- Switch on through the main switch;
- Deactivate the emergency button if necessary;
- Remove the service key and close the Plexiglas lids, if open;
- Press the START button to activate- the line relay;
- Switch on the processor by pressing START;
- Set the data for each function according to the instructions of the paragraph entitled **“PROCESSOR PROGRAMMING“**.

Reset the plate counter to zero and the drying temperature to 50°C.

Refer to the appropriate plate working instructions for the developer temperature, replenishment rates and throughput speed.



ATTENTION

The safety key must be removed during normal working operations and only inserted during maintenance and under the responsibility of the operator involved.

PROCESSOR USE

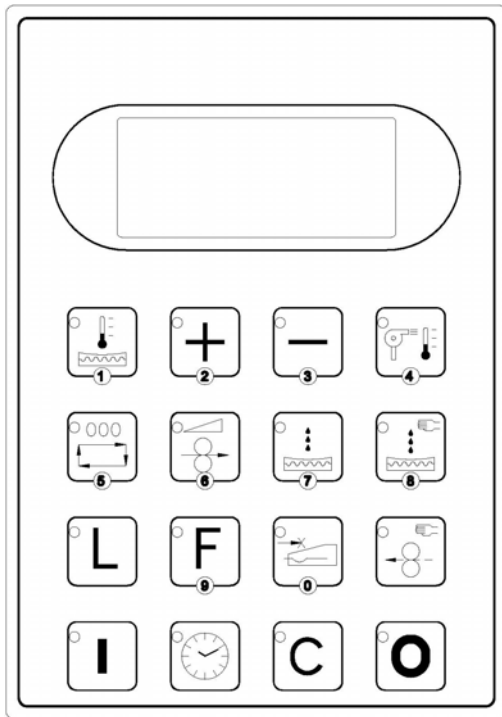
After having carried out all the preparatory operations, wait for the wording **READY** to appear before actually inserting the plate. It is in the meantime possible to feed a scrap plate to test that everything is in working order.

USE: Insert the plate on the entry level and push lightly until the first pair of rollers begins to pull it.

When activated by the plate, the sensor located beneath the entry level will allow a few seconds to better position the plate, before starting the processing cycle. As the plate advances, the microprocessor will activate the brush positioned inside the developer tank (if installed), the gum pump, as well as the washing and drying cycles in succession. It will switch them off successively after the plate has left the corresponding section.

Should a second plate be inserted whilst the processor is already completing a work cycle, the washing, gum and drying cycles will start immediately and stop when the last plate is inserted.

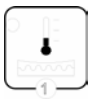
PROCESSOR PROGRAMMING

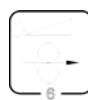

CONTROL PANEL
Figure 2


This section describes the functions of the various keys present on the keyboard:


I **START:** Press this key to start the machine in standby mode;

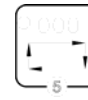
O **STOP:** Press this key to stop the machine function. A default message will appear on the display with the current time;

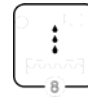
 **DEVELOPER TEMPERATURE:** Press this key to see the set temperature (in C° or F°). It is possible to vary the set data by pressing the + or - key within 3 seconds;

 **ROLLER SPEED:** Press this key to see the set plate advance speed (cm/min) and to vary the set data by pressing the + or - key within 3 seconds;

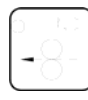
 **AUTOMATIC REPLENISHMENT:** The developer will enter a set amount of liquid for each plate. Press this key to see the set replenisher quantity (ml/m²). It is possible to vary the set data by pressing the + or - key within 3 seconds;


 **DRYING TEMPERATURE:** Press this key to see the set temperature (°C or °F). It is possible to vary the set data by pressing the + or - key within 3 seconds


 **PLATE COUNTER:** Indicates the number of square metres of plate processed. Press key for value display. To delete the value displayed press + and - keys at the same time.

 **MANUAL REPLENISHMENT:** Press this key to fill the tank with replenisher in two modes:

- if the key is pressed and released, the LED on the key will illuminate and a pre-set quantity of about 50 ml will be added. When the LED is off, each press of the key will add this amount.
- if the key is held down, the replenisher will be continually added.

 **ROLLER ROTATION REVERSAL:** By keeping this button pressed, the machine will reverse the rotation of the rubber roller, cancelling the work cycle in progress;

 **LANGUAGE SELECTION:** Press this key to select the language used on the display. There is a choice of the following languages: **ITALIAN – ENGLISH – FRENCH – GERMAN – SPANISH – DUTCH;**

 **CONDUCTIVITY METER:** Press this key to see, for 30 seconds, the value of the developer conductivity;



TIMER: Press this key to set the automatic switch on/off function of the machine.

To set an automatic switch on/off time press the **TIMER** key. The second line on the display will indicate the current time. The third line will indicate the switch on time and whether the automatic setting is engaged by indicating YES or NO; the fourth line indicates the time of automatic switch off and whether this function is engaged or not.

Use the **DEVELOPER TEMPERATURE** key to shift the cursor on to the various parameters and use – or + to modify them. To engage or disengage the automatic switch on function press keys + OR -, with the cursor on the switch-on time. With the machine off, the engagement of the automatic switch on/off function is indicated by the wording ON or OFF on the fourth line of the display;



DEVELOPER FILLING: Press this key to engage the fill-up and replenisher pump. The pumps will stop automatically when the developer tank is completely full.



CODES: This key allows for the temporary setting of certain codes that determine the engagement or disengagement of certain functions. Keep this key pressed and enter the relative code.

REPLENISHER FUNCTION

The processor undertakes 3 types of replenisher functions: **AUTOMATIC**, **ON TIME** and **OFF TIME**.

AUTOMATIC replenishment occurs each time that a plate is developed. The quantity is determined by the plate size and the value set for automatic replenishment.

Before using the machine it is also necessary to set the format of the plate to be used by entering the length and width dimensions (a maximum of 5 plate formats may be set).

To undertake this setting keep key “**C**” pressed down and enter number “**10**”. The first line indicates the plate number, the second indicates the width in cm and the third the length in cm.

Use keys + and – to set the values and use key **L** to change line

The machine reads the length of the plate, associates the width according to the available formats and calculates the surface area.



ATTENTION

Remember to insert the plate with the side indicated as length, parallel to the advance direction.

The **ON TIME** replenishment function consists of the addition of a pre-set amount of replenisher for each machine standby hour.

To set this amount keep key “**C**” pressed down and digit code “**11**”.

Select the required value using keys + and – and select the required value expressed as ml/hour.

OFF TIME replenishment function consists in the machine calculation of the hours that it remains totally off, which, multiplied by the quantity indicated above, determines a certain amount that will be automatically replenished each time the machine is switched on.

To cancel this operation, switch the machine on and off twice using the main switch.

MACHINE WASHING FUNCTION

The machine has a washing water saving system to reduce water consumption.

To set the amount of water fed into the washing tank. Enter code 12.

The value to be entered is expressed as seconds per square metre of washed plate (NB: seconds of opening of the water inlet valve).

CLEANING AND UPKEEP



IMPORTANT

Before beginning the maintenance operations, insert the service key

TRANSPORT SYSTEM

To dismantle the transport rollers proceed as follows:

- stop the machine with the nuts of the upper rollers positioned upwards;
- loosen the nuts;
- lift the roller from the track and extract it from the lateral support;
- the lower rollers just need to be lifted;
- wash with hot water and sponge or suitable cleaning liquids;
- re-assemble the lower rollers;
- replace the upper rollers inside the lateral supports and screw down.

DEVELOPER SECTION



IMPORTANT

The chemical substances used are a potential pollution risk. They should therefore never be deposited in the sewerage system, but must be collected in special containers and disposed off in accordance with local environmental regulations.

- drain the developer using the tap.
- open the tap located at the bottom of the filter and wait for all the liquid to drain away.
- loosen the filter holder and remove the cartridge.
- remove the lid from the developer tank and clean using a sponge and hot water.
- remove the plate guide support lifting it on one side and removing it from its slot; clean with a sponge and hot water.
- when the tank is totally empty, clean with a sponge and hot water. In the event of any stubborn scale deposits, use suitable cleaning detergents.

For the thorough cleaning of the developer circuit proceed as follows:

- close the developer tap.
- re-tighten the filter-holder without the inner cartridge, making sure that the taps on the filters are open, and that the one on the filter-holder is closed.
- remove the piping from the replenisher drum and insert it into another drum containing warm water (max 30 °C).
- fill the tank with warm water (max 30 °C) and start up the machine for a few minutes, and then empty.

WASHING SECTION

- Remove the spray bars, loosening the fixture screws. Clean all spray bar holes;
- Clean the tank using a sponge and warm water (max 30 °C). In the event of very stubborn deposits, use the recommended detergents. Loosen the two spray bars from the left side of the machine and clean using a sponge and hot water. Make sure that the holes on the spray bars are not clogged in any way.

GUMMING SECTION

- Remove the gumming rollers and wash using hot water. Clean the velvet cloth with hot water;
- Clean the large and small tanks using a sponge and warm water (max. 40 °C).

For the thorough cleaning of the gumming circuit, proceed as follows:

- remove the gum suction pipe from the finishing product drum and insert into another drum containing warm water (max 40 °C).
- run the machine for a few minutes, say 10 – 15mins.
- replace the drum of water with the drum of gum.



ATTENTION

Never allow the gumming circuit (piping and pump) to remain empty, as any residual gum that dries may clog the internal valves of the pump, causing irreparable damage.