

# **USER and MAINTENANCE MANUAL**



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## **MODEL:**

- MW EKO 1
- MW EKO 1 LR
- MW EKO 2



## **WARNING!!!**

UNIT OPERATES WITH HIGH TEMPERATURE WATER. TO INSERT OR TAKE OUT TOOLS AND TRAYS FROM THE TANK PLEASE WEAR GLOVES AND GLASSES FOR NOT GETTING BURNED.

ALWAYS ACCOMPANY THE LID WHEN CLOSING THE COVER SAME TO AVOID THE OCCASIONAL CRUSHING OF THE HANDS

THE MACHINE IS SUPPLIED BY THE MANUFACTURER WITH THE PARAMETERS OF TEMPERATURE AND DURATION ALREADY PROGRAMMED AND SET.

IT IS COMPULSORY TO HAVE WATER IN THE TANK BEFORE TURNING ON THE MACHINE (ON / OFF button)

IT IS COMPULSORY TO USE ITS SPECIFIC DETERGENT "CLEAN DETERGENT" FOR A GOOD OPERATION OF THE MACHINE. NO SERVICE OR WARRANTY IS PROVIDED IF ANOTHER TYPE OF DETERGENT IS USED

THE USER MUST TO CONSULT THE "CLEAN DETERGENT" DATA SHEET BEFORE USING THE MACHINE.



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## 1 INTRODUCTION

## 1.1 MANUAL IMPORTANCE

This manual provides information about the installation, use and maintenance of the defined machine:

## **MULTI WASH - Immersion pot washer**

In all its various models.

The machine must be used in accordance with what is specified in this manual: it is therefore recommended to read it carefully before starting the machine, without neglecting anything written and paying particular attention to the messages highlighted. Compliance with the standards and recommendations contained therein allows safe use and appropriate interventions. In case of discrepancy between what is described here and the machine, the user must inform the manufacturer before commissioning. The use and maintenance manual is an integral part of the machine; it must be kept intact and in a safe place throughout the life of the machine, even if the machine is passed on to another user.



## **DANGER**

Failure to comply with the instructions contained in this use and maintenance manual exempts the manufacturer and distributor from any liability. For any data not included or not deductible from the following pages, it is recommended to consult the manufacturer directly.

## 1.2 MANUFACTURER INDENTIFICATION DATAS

The identification of the company **ZERNIKE S.r.l.** as the manufacturer of the machine, takes place in compliance with the legislation in force by means of the following acts:

Identification plate
Use and maintenance manual
CE Declaration

The MULTI WASH machine was designed and produced exclusively by the company: **ZERNIKE S.r.I.** 







## 1.3 CE MARKS

The identification of the machine is possible by means of the plate applied to the machine, indelibly showing the information relating to the CE marking



The reproduction of the "CE MARKING" plate applied to the machine and the relative "DECLARATION OF CONFORMITY" is included in the attachments.



It is forbidden to remove the "CE MARKING" plate and / or replace it with other plates from machines of the same model present in other departments.

If for accidental reasons the "CE MARKING" plate is damaged or detached from the machine, the customer is obliged to inform ZERNIKE S.r.l. and ask for its replacement.

## 1.4 TIPOGRAPHICAL CONVENTION



### **DANGER**

Information referring to procedures or practices that, if not performed correctly, can cause injury, death or long-term risks to people's health and the environment.



## **CAUTION**

INFORMATION REFERRING TO PROCEDURES OR PRACTICES WHICH, if not carried out correctly, can cause damage to the machine or product.



## **CAUTION**

Important information relating to ongoing operations.

## 1.5 SAFETY INSTRUCTIONS FOR MAINTENANCE

- Before executing any maintenance and / or cleaning operations on the machine, disconnect the electrical and pneumatic power supply and wait for the hot devices to cool.
- Maintenance must be performed by qualified personnel.
- Before carrying out any maintenance, stop the machine using the procedures listed in the manual.
- Never use petrol, solvents or flammable fluids to clean the parts, but use commercial and approved non-flammable and non-toxic detergents.
- Carry out all maintenance and repair operations carefully, as described in this manual.
- Always use personal protective equipment.
- Use electric tools that comply with current safety standards.
- The machine must be used according to its intended use.
- The use of the machine must always be in compliance with the safety regulations in force in each country.

## 1.6 SIGNS APPLIED TO THE MACHINE

- The signs applied to the machine must never be removed.
- The signs must be clearly legible and not covered by objects.
- Deteriorated signs must be replaced by requesting them from the manufacturer.

## Description:

1. Danger of crushing hands



2. Danger of surfaces and hot water



**3.** Indicates the obligation to consult the instruction manual before operating on the machine



4. Obligation to use gloves



5. Obligation to use glasses



**6.** Obligation to close the lid when handling the machine and during the washing phase





## 1.6.1 STICKERS AND WARNING LABELS



General adhesive label "WARNINGS" applied on the lid.

Adhesive label "WARNINGS": it is compulsory to have water in the tank before turning on the machine (on / off button)

"HOT SURFACE DANGER" Warning labels applied on the deck and at the right and left of the lid.

Warning labels "DANGER OF CRUSHING HANDS" Applied on the sides of the two basket lifting pistons.

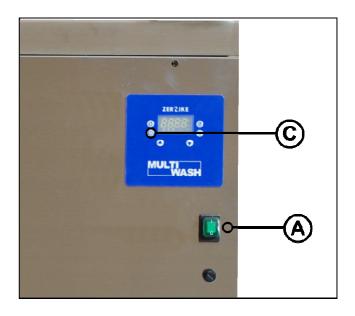


## **2 SAFETY DEVICE**

## 2.1 OPERATING CYCLE SAFETY DEVICES

The machine is equipped with the following stop functions:

- Main switch Press the main switch (A) to "0" -OFF to disconnect the machine from the power supply
- Control unit stop Press button (C) on "to turn off the control unit and stop heating the water



## 2.2 INTERNAL THERMAL SAFETY DEVICES

Inside the device there are the following thermal safety devices:

• Safety thermostat with manual reset Button (**D**). The thermostat trips in case of excessive heating of the resistance. When it clicks, the resistance immediately stops heating. To reactivate the safety thermostat, unscrew the black protective cap and click on the reset. Finally, reposition the protective cap by screwing it back on.





## 2.3 ELECTRICAL SAFETY DEVICES IN CASE OF OVERLOAD

Positioned in the special drawer inside the compartment technical, there is 1 fuse:

- Models EKO: n. 1 of 12,5 A

The fuse disable the power supply in case of overload. For more details refer to the wiring diagram



## 3. MACHINE DESCRIPTION

## 3.1 MACHINE DIMENSIONS

See the table below with the indications for the various machine models.

## 3.2 PERFORMANCE

	MW EKO 1	MW EKO 1 LR	MW EKO 2
GN 1/1 - 6,5h	8 trays	8 trays	12 trays
GN 2/1 - 6,5h			6 trays
GN 60x40 - 2h			18 trays



## 3.3 TECHNICAL DATA

Below are the data and technical characteristics of the machine to which reference must be made, together with the identification data shown on the CE marking plate, for any contact with the Manufacturer's Technical Assistance

FEATURES	U.D.M.	мw еко 1	MW EKO 1LR	м <b>w</b> еко 2
Dimensions (L x P x H)	mm	540 x 700 x 875	700 x 540 x 875	890 x 600 x 875
Machine weight	kg	65,5	65	77
Absorbed power	W	1.80 kW	1.85 kW	1.85 kW
Tank capacity	lt	125	125	180
Supply voltage / frequency	V / Hz	220-230V – 50-60 Hz	220-230V – 50-60 Hz	220-230V – 50-60 Hz

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## 4 MACHINE INSTALLATION

## 4.1 INSTALLATION REQUIREMENTS

The machine must be installed on a flat surface capable of withstanding an overall load sufficient to support the weight of the machine. The installation site must be leveled in the longitudinal and transverse directions.

Maximum pavement inclination 0 ° Minimum flooring capacity 1000 kg / m2

### 4.1.1 MACHINE POSITION

The machine is completely assembled and tested at the manufacturer's premises and then shipped in the same conditions, therefore it is not necessary to complete the machine once it reaches the user.

• Position the machine in the designated place and lock the machine, using the brake on the wheels. Make sure the machine does not move.

## 4.2 ELECTRICAL CONNECTION AND EARTHING

The electrical connection of the machine is carried out by and responsibility of the electrical maintenance technician.

The machine must be connected to the power line, considering:

- The laws and technical standards in force in the place and at the time of installation;
- The data shown on the electrical equipment plate;
- The data shown on the wiring diagram that is attached to this manual.

The power supply must be carried out by connecting the supplied power cable to the plug (not supplied) and then subsequently connecting it to a power outlet protected by a 230V, 30mA differential switch

## IMPORTANT

## THE USE OF EXTENSIONS IS FORBIDDEN

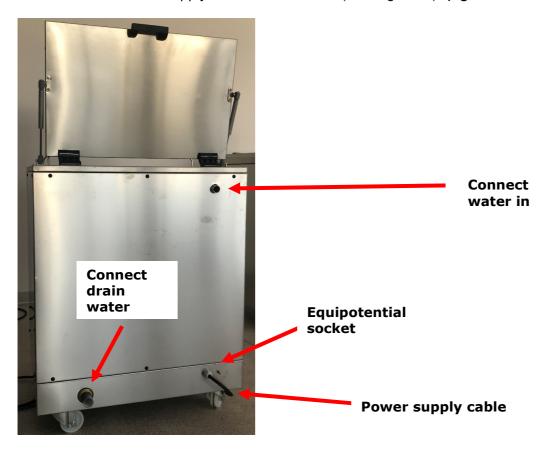
The machine is originally equipped with a general protection device from electrical overvoltage (see the attached wiring diagram for its characteristics) and a system of equipotential connections for protection of all masses.



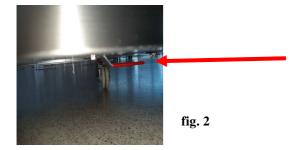
## 5 TO START THE MACHINE

## 5.1 SISTEM PREPARATION

A - Connect the water supply and the water drain (to the ground). (fig. 1 - back of MW EKO)



- **B** Connect the machine to the mono-phase mains
- C Connect the machine to the general grounding line using the equipotential screw (OPTIONAL in case you have to connect several machines together)
- D Check that the unloading handle, located under the machine, is in the "closed" (fig. 2)



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## 5.2 START THE MACHINE

1 Put the water in the tank, opening the tap of the water network connected to the machine. Fill the tank up to the recommended level 2 cm below the overflow hole. (see fig. 3)



fig. 3

2 Press ON/OFF button to switch on the machine. (see fig. 4)



fig. 4

3 Press button to turn on the display and activate water heating up to 70 ° C. The water heating starts automatically by activating the display and the temperature to be reached is already pre-set. There are therefore no other buttons to click.

The flashing of the GREEN LED indicates the heating phase. (see fig. 5)

The GREEN LED turning off indicates the end of the water-heating phase.

The waiting time varies depending on the machine model from a minimum of 2 hours to a maximum of 6 hours.



fig. 5



4 When the water temperature is reached, the detergent can be poured into the tank. The amount of product needed by the system varies by model:

MW EKO 1: 2 cartons of 2 kg MW EKO 1 LR: 2 cartons of 2 kg MW EKO 2: 3 cartons of 2 kg



The detergent has to be inserted by pouring one box at a time and waiting 15 minutes from each other.

The detergent must be poured by spreading it slowly inside the tub along the perimeter and at the end of the pouring it is recommended to raise and lower the basket a couple of times.

5 Now the system is running, you do not have to touch any buttons, just turn the system on or off.

### 5.3 MULTIWASH USE

- Remove food residues from utensils before immersing them in the System
- · Soak the materials
- Variable immersion time based on the type of encrustation
- · Take out the materials
- Rinse under running water with the pressure necessary to remove the emulsified residues

Rinse under cold running water (the water does not need to be hot) with the necessary pressure to remove the emulsified residues (better if you use a hand shower)



## **CAUTION**

To remove food residues from utensils before placing them in the tub, never use sponges or detergents. Never pre-wash the utensils with any type of detergent but use only water.

## 5.4 END OF WASHING CYCLE

**N.B.** The washing operating cycle set by default on the machine is 14 days but this parameter can be modified as desired between 14 - 21 - 28 days.

The end of the washing cycle will be signaled by the appearance of the message "END" on the display, whether the control unit is switched on (ON) or off (OFF).



## 5.5 RESIDUAL RISKS

The **MULTI WASH EKO** machine has been designed so that the operator's direct intervention operations on the machine are reduced to a minimum, with the aim of eliminating all risks related to its use. However, during the normal processing cycle, the Operators are exposed to some residual risks which, due to the very nature of the operations, cannot be totally eliminated.

The residual risks related to the normal way of working are:

A- Risks of possible contact with the solution in the tank while using the machine



### **DANGER**

During the unloading and loading of the tools from the tank it is mandatory to use protective gloves and glasses to avoid contact with the hot solution.

The security measures provided are:

- active type, through the use of protective gloves and glasses
  - **B-** Risks of possible crushing when using the machine



## **DANGER**

During the unloading and loading of tools from the tank, it is mandatory to always accompany the lid both when opening it and when closing it, always up to the end of its stroke. Never leave the lid open halfway while closing or opening it.



## **DANGER**

During the movement of the basket, up and down, the presence of other people near n the machine is prohibited.

Only the operator who moves the basket can stand on the front of the machine

The security measures provided are:

- active type, through emergency stop.
- C- Risks coming from possible electric energy use

The security measures provided are:

Active type, by general main switch.



### WARNING

Machine has to be used by one only operator.



## **IMPORTANT**

The basic safety rule to follow when working on the machine is to turn off the power supply.



## 6 MAINTENANCE

An essential condition for having a machine at an excellent level of efficiency and reliability over time is the execution of accurate and constant maintenance.

It is desirable that the operations listed below are carried out with scrupulousness and attention.



### **NOTE**

The Manufacturer recommends the intervention of its own technician on an annual basis to carry out checks on the machine and its accessories.

## 6.1 WARNING ON INTERVENTION



### DANGER

It is a general obligation before any maintenance, ordinary or extraordinary, to cut off the power supply to the machine.

Also adopt personal protective equipment during all phases of intervention such as gloves, overalls, glasses, etc.

It is mandatory to follow the instructions in this manual.

For any other maintenance intervention that is not described in this manual, contact the manufacturer directly.

## 6.2 SCHEDULED MAINTENANCE INTERVENTION

The following table lists all the checks and periodic maintenance operations necessary to maintain correct and safe operation of the machine over time.

The operations described below must be carried out within the indicated times.

Failure to comply with the requirements exempts the Manufacturer from any liability for the purposes of the Warranty.

KIND OF INTERVENTION	FREQUENCE OF EXECUTION	STATUS OF MAINTENANCE
Ordinary cleaning	At end of cycle	Isolation
Periodic cleaning	When needed	Isolation
Safety measurements check	Monthly	Isolation
Electrical board check	Yearly	Isolation
Replacement hinge with micro	As needed and no later than 10 years	Isolation



## 6.3 REPLACEMENT OF THE MAIN SWITCH FUSES











To replace a fuse you need to:

- · Switch off the machine
- Unplug the power cord
- Open the right side of the machine where there is the technical compartment
- Extract the broken fuse or fuses and replace them with new ones of the same value
- · Close the side of the machine

## 6.4 EXTRAORDINARY MAINTENANCE AND REPAIR

All interventions not expressly listed in this manual, such as:

- interventions following faults in components or electric motors
- interventions following faults in mechanical components

are to be considered as extraordinary maintenance interventions.

Extraordinary maintenance interventions must be carried out by qualified personnel authorized by the machine manufacturer. If a fault occurs that requires the intervention of the manufacturer, the machine must always be placed in the "Isolation" state.

To obtain technical assistance, contact your dealer directly from whom you bought the machine

## 6.5 SCHEDULED REPLACEMENT OF PARTS SUBJECT TO WEAR











The user is advised that:

- the hinge with safety micro on the lid must be replaced no later than 10 years after use



## **DANGER**

All extraordinary maintenance and repair operations are to be carried out with the machine stopped with sectioned electricity;



### **DANGER**

Never try to make makeshift repairs or replacements; this could involve serious dangers for the exposed persons and for the machine



## 7 MACHINE CLEANING









## CAUTION

Perform the operations only with the machine stopped, making sure that the wheels with brakes are locked, after having drained all the water.

For the good functioning of the machine it is necessary to periodically clean it.

ORDINARY CLEANING: At the end of use, remove any small residues left in the tank

PERIODIC CLEANING: If necessary, for a deeper cleaning, if there are larger residues on the bottom of the tank.

- Do not use aggressive products such as petrol or solvents, as these substances could react with the mixed products generating toxic vapors.
- If it is necessary to descale the tank and the basket, used a descaler gel to favor its adhesion to the walls. At the end, rinse thoroughly
- Do not carry out operations with bare hands; wear specific protective gloves.

## 7.1 ORDINARY CLEANING

The routine cleaning phase now begins. Take the shower and clean the basket and the inside of the tub from residues with a jet of water. Trying to get the water into every crevice.

If necessary, use a gel buffered descaler to be applied to the walls and parts to be cleaned.

- Fill the tank with water and let the descaler act for one hour. At the end, empty the water from the tub and rinse thoroughly.

## 7.2 EXTRA ORDINARY CLEANING









If necessary, for a deeper cleaning, if there are residues on the bottom of the tank, we recommend removing the basket and the drain cover to be able to clean them separately and to better clean the bottom of the tank.

Clean the inside of the tank from any residues and clean the heating element and the grid that protects the heating element from any residues.





At the end of this phase, replace the drain cover, the basket and close the drain handle located under the machine. The machine is now ready to start a new wash cycle.

- **1.** Using a pressure shower, clean the tub from residues, remove the drain cover and clean everything.
- 2. At the end of this phase, put the drain cover back in its place and the basket back to the tank.
- **3.** Close the water drainage handle located under the machine.
- **4.** The machine is now ready to start a new wash cycle.



## **PERICOLO**

When the display is turned on, the resistance is activated and the water starts heating.

So before pressing the button make sure water is loaded in the tank and reaching the overfill level.



## 8 MULTI WASH EKO INTERFACE



- SWITCH ON OFF (STAND-BY)
- **O** RESET
- PROGRAMS
- SET POINT TEMPERATURE
- DECREASE
- O INCREASE



#### ICONS DISPLAY 8.1

SYMBOL	NAME
°C	° C
°F	°F
GREEN LED	Heating
RED LED	Power Failure
Timer	Icon Timer

### **GREEN LED**

ON during heating.

Flashing during working set-point modification OFF with achieved set-point.

## **RED LED**

Flashing in case of power failure

### **Button ON/STAND-BY**

With OFF: single pressure puts ON the controller

With ON: single pressure puts STAND-BY the controller.

## **Button INCREASE**

With ON:

single pressure let you increase of one unit the value of the active field Extended pressure let you increase quickly the active field value

### **Button DECREASE**

With ON:

single pressure let you decrease of one unit the active field value Extended pressure let you decrease quickly the active field value

### SET POINT TEMPERATURE BUTTON

With ON: single pressure let you enable set-point temperature modification With STAND-BY: works only if simultaneously pressed DECREASE button to enter into configuration settings

### **PROGRAMMS** button

With ON: single pressure let you enable the program in use display and modification

With OFF: its pressure let you display the program in use

## **RESET Button**

With ON or OFF and washing program ended:

single pressure let you enable machine recovery functioning.

With ON or OFF and program in use still working: its pressure gives no effects.



#### SYSTEM SCHEDULE 8.2

## Procedure to SCHEDULE MULTI WASH EKO.

We remind the unit comes out the factory with recorded setting to let end use operate immediately. During the installation, it is not necessary to set any parameters unless needed to vary days and working cycle.

## **SETTED SCHEDULE:**

working temperature: 70°C working cycle: 28 days.

## 8.2.1 FUNCTIONING

Unit can be in 2 positions:

- OFF adjustments are not enabled
- ON adjustment is enabled

When the controller is ON:

- pressure of TEMPERATURE SETPOINT button let you enable the modification for working set point.
- pressure RESET button enable the reset procedure for the functioning time.
- pressure PROGRAMS button enable the possibility to choose the program schedule.
- pressure ON/OFF button puts on stand by the control and the thermoregulation is disabled.

With controller powered (no matters if ON or OFF):

the count of ignition time is always active and the icon Timer is on.

To switch on Multi Wash by pressing button ON .



You will have on display the temperature the probe is detecting in that precise moment and the flashing

We remind working temperature has been already set, by default, at 70°C.

Once the probe will detect to have achieved the temperature set point, green led will end to flash.



## 8.2.2 DISPLAY AND MODIFICATION SCHEDULE OF WASHING CYCLE

PROGRAMS to enable the schedule With controller ON, press two times on button modification.

You have 00, NEED TO INSERT "25" AS PASSWORD, CONFIRM WITH



Press again two times on button

PROGRAMS

It displays days of the program in use, equivalent to 28 days.

Press on button INCREASE or DECREASE to modify , at choice, 14 or 21 days (depending by quantity and intensive use of the machine, differing from customer to customer)



Confirm the selected days by pressing again button

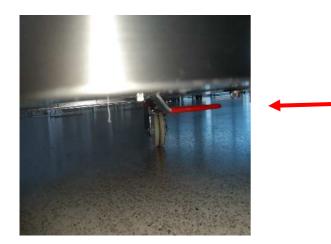


**Note 1:** programs are 3 and you can display according to lasting Note 2: if changing program in use the days counting will not reset but starts since the same day the modification is done (for ex. if I make the modification on the 6th day, new counter starts from the 6th day and not from the 1st)

## 8.2.3. WATER DRAIN AND END OF PROGRAM RUN

At the end of the working program (no matters if controller ON or OFF), it displays label "END". All the output are disabled and icon "TIMER" will flash.

Open the drain handle under the machine.





To recover the working, press button PRESET. Confirm by pressing again button RESET.



The display shows "DRN" (drain), the water will begin to drain and will last a few minutes. Once the download is complete, the display shows what was defined by the state it was in before the RESET.

#### WATER DRAIN WITH OPTIONAL "DRAIN PUMP" 8.2.3.1

If the MULTI WASH EKO is equipped with drain pump (optional to be expressly ordered together with the machine)

At the end of the working program (no matters if controller is ON or OFF), it displays label "END". All outputs are disabled and icon "TIMER" will flash.

1. Open the drain handle under the machine.









Now the drain pump is activated and it displays label "DRN" (drain). Pump will work for a few minutes. At the end (or by pressing button ON/STD-BY), it displays programs days and counter is started. Icon "Timer" will light on and keep steady.

After 5 seconds, it displays all what previously set before RESET.

#### 8.2.4 **POWER FAILURE**

After a power failure the controller returns to the same position it was. RED LED will flash until the pressure of any button.

Counting, if active, will start since last memorized value.

#### 8.2.5 SIGNALS AND ALARMS

STRING	CAUSE	CONSEQUENCE
	High Temperature Controller	Output disable

Each alarm will have acoustic buzzer (a beep of three seconds every 10 sec.). The pressure of any button cannot silence buzzer.

#### 8.2.5.1 HIGH TEMPERATURE CONTROLLER

High temperature controller alarm is enabled with parameter P5. You have this when controller probe a detects a higher temperature in comparison to parameter P6. It displays a flashing label "H-t". All outputs get disabled. The acoustic buzzer will last 3 seconds every 10. Pressure button DECREASE let you display controller temperature value. At the end of the alarm the control starts to work from the point it was stopped.



#### 9 TROUBLE SOLVING

### 9.1 PROBLEM AND MALFUNCTIONS



## CAUTION

Any intervention on the machine whose execution requires precise technical competence and particular skills must be carried out by authorized and qualified personnel. This staff must create all the conditions necessary to comply with the laws in force regarding safety in fixed and / or temporary workplaces.

PROBLEM	CAUSE	SOLUTION
Machine does not start	Power supply interrupted.	Check the main electrical switch. It must be in the I (ON) position.
The machine loses temperature / does not heat the water	The resistance safety thermostat has tripped	Check the safety thermostat.  Manually reset the thermostat.  Unscrew the black cap covering the thermostat and press the reset.

#### 10 MACHINE AND DEMOLITION DISPOSAL



## IMPORTANT

Pursuant to art. 13 of the legislative decree 25 July 2005 n. 151 "Implementation of Directives 2002/795 / EC and 2003/108 / EC, relating to the reduction of the use of hazardous substances in electrical and electronic equipment,

as well as the disposal of waste".

Adequate separate collection for the subsequent forwarding of the decommissioned equipment for recycling, treatment and environmentally compatible disposal helps to avoid possible negative effects on the environment and health and favors the reuse or recycling of the materials of which it is made. equipment. Illegal disposal of the product by the owner involves administrative penalties provided for by current legislation.

Demolition must be carried out by adopting safety measures that must take into account the logistical, environmental and wear conditions of the plant itself. In general, the operators who must carry out the demolition by following the following precautions:

- Wear individual protective clothing and accessories (helmet, safety shoes, gloves, goggles and mask) approved according to the current accident prevention regulations;
- make sure that the machine is disconnected from all sources of energy;
- check that all utilities and any technical gases are disconnected.



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## **CAUTION**

Demolition must be entrusted to specialized firms qualified to perform this type of operation because they have the equipment, tools and machines suitable for the purpose..

The phases of disposal of the parts of the system must be carried out by the operators safeguarding the following conditions:

- Wear individual protective clothing and accessories (helmet, safety shoes, gloves, goggles and mask) approved according to the current accident prevention regulations;
- The pieces of different nature (steel, lead, plastic, rubber, electric cables, etc.) must be separated in special containers and identified.



## **CAUTION**

- Pay maximum attention to the recovery and separation of potentially dangerous materials (batteries, accumulators, etc.) for the construction of the various components. For the disposal of all waste, comply with the legal provisions in force in the country where the disposal takes place.
- The disposal of the machine components must be delegated to authorized and qualified companies according to the regulations in force in the country where the disposal takes place.







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