

**DieTronic**  
lubrication technology

# ***OPERATING INSTRUCTIONS AND MAINTENANCE SERIE LCP ANTIRUST SYSTEM***

***Dietronic Srl – lubricating technology***

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## **1. GENERAL INFORMATION**

### **1.1 CAUTION**

This manual should be considered as an integral part of the machine, and should always be available to people interacting with machine itself; the manual should always accompany the machine, even if transferred to another user.

Operators are required to read this manual thoroughly and carefully follow the instructions therein, as the DieTronic Ltd. not responsible for damage to persons and / or property, or suffered by the machine, if not to the conditions described below.



The customer has the obligation to respect trade secrets, whereby the following documents and its attachments can't be altered or modified, reproduced or disclosed to third parties, without the authorization of DieTronic Ltd.

### **1.2 WARRANTY AND SUPPLY**

The Dietronic s.r.l. declare that the machine complies with the provisions of law in force in the countries of the European Economic Community and releases the attached DECLARATION OF CONFORMITY.

The Dietronic s.r.l. will repair at its premises any manufacturing defects that occur within 24 months from the delivery of the machine. The warranty becomes void if the replacement free of charge at the manufacturer's factory. The components replaced as a warranty do not extend the warranty period.

In no event shall Dietronic s.r.l. be held responsible for failure to production.



### 1.3 EXCLUSIONS FROM PROVISION

The Dietronic s.r.l. disclaims any liability for failure to comply with the rules for proper installation and is not responsible for the systems upstream or downstream of the machine which it provides.

The Dietronic s.r.l. is only responsible for defects resulting from normal use of the machine .

Excluded are those parts for which there is a normal consumption.

The Dietronic s.r.l. is not liable for defects or malfunctions arising: from the improper use of the machine by the use of lubricants, detergents or other unsuitable products, alterations due to transport or to particular environmental conditions, failure or improper maintenance; tampering or makeshift repairs; unqualified individuals or accessory products not related to the car.

The Dietronic s.r.l. not responsible for disposal of the machine components or products required for use.

The explosion-proof equipment to special conditions of flammability is provided only at the specific request of the customer (see contract). Normally the machine is not equipped to work in environments with volatile substances - explosive.

The Customer is obliged to use only original spare parts and install them according to the intended use.

The responsibilities arising from commercial components are de-linked to the respective manufacturers.



## 1.4 THE DOCUMENT AND RECIPIENTS

### 1.4.1 Characteristics of personnel

This document is intended for several people to experience or qualifications who can work in accordance with the most common safety standards.



*The Customer must ensure that the operator has the ability and training necessary for its task.*

The reading of this manual is mandatory for all professionals interacting with the machine, they must also be informed of the RESIDUAL RISKS arising from the use of the machine or product that is.

The manual can NOT make up for the shortcomings of the various cultural and intellectual professionals interacting with the machine.

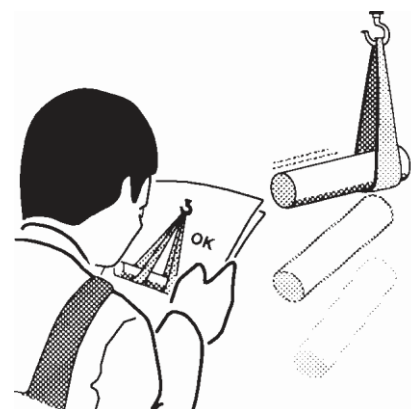


*The Customer is liable for all damages caused or suffered by the staff that he has authorized the use of the machine.*



*is forbidden to use the machine by people unable or who use alcohol, drugs and / or drugs*

The staff that interacts with the machine must always use personal protective equipment, headphones, shoes, leather gloves, etc....



### 1.4.2 Purpose and structure of the document

The original language in which the document has been drawn up is the ITALIAN, so in the event of any inconsistency or doubt seek the original document or further clarification from the manufacturer.



*The instructions given in this manual does not replace the safety and technical data for installation and operation, applied directly to the product, nor the rules dictated by common sense, and securities regulations in the country of installation*

**If, for any reason, at installation and / or commissioning of the plant was carried out is NOT a training training, the Customer is obliged to request it and / or otherwise to ensure that all the conditions described in this document.**

## 1.5 REFERENCE STANDARDS

This chapter shows International standards and national laws respected in the design and construction of the machine.

- Presidential Decree 547 (27 April 1955) Regulations for the prevention of accidents at work;
- 98/37 EC delivers with Presidential Decree 459 (24 July 1996) implementation of Directives 89/392/EEC, 91/368/EEC, 93/44/EEC and 93/68/EEC for CE marking;
- D. Decree 626 (18 September 1994) Implementation of directives for improving the safety and health of workers at the workplace;
- EN 292-1 (November 1992) Safety of machinery - Basic concepts, general principles for design. Part 1: Basic terminology, methodology. (Harmonized).
- EN 292-2 (November 1992) Safety of machinery - Basic concepts, general principles for design. Part 2: Technical principles and specifications. (Harmonized).
- EN 1050 (November 1998) Safety of machinery - Principles for risk assessment. (Harmonized).
- EN 418 (June 1994) Safety of machinery - Emergency stop device. Functional aspects, design principles. (Nor- but harmonized).
- EN 60204-1 (June 1998) Safety of machinery - Electrical equipment of machines Equipment. Part 1: General requirements. (Harmonized standard).
- EN ISO 11202 (October 1997) Acoustics - Noise emitted by machines and equipment. Measurement of emission sound pressure levels at the workplace and in other specified positions - Survey method in situ. (Harmonized).
- EN 60529 (June 1997) Degrees of protection provided by enclosures (Code IP).
- 89/336/EEC (May 1989) Electromagnetic compatibility
- 73/23/EEC Low Voltage Directive implemented by Law 791/77 update by Legislative Decree no. 277/97.
- IEC 446 (1989) Identification of insulated and bare conductors by colours.
- UNI 10893 Technical product documentation - instructions for use.
- UNI - ISO 10015 guidelines for training.
- ISO 7000 and DIN 30600 symbols and graphic signs for the identification of the functions.





## 1.6 SYMBOLS AND SIGN

On the manual and / or in some cases on the machine, the danger zones are indicated by signs, labels, symbols or icons that represent a risk or obligation. For example, the obligation to consult the manual, which must be available for future use and must not be in any way impaired.

Transactions or situations in which the employees involved must be very careful. General Warning Hazardous voltage.

Operations that require the use of employees qualified and authorized.

Danger caused by electromagnetic interference

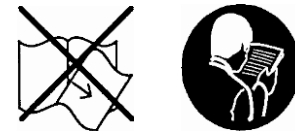
Zone temperature: indicates the presence of the presence of heated areas or who have parts with high temperature (danger of burns).

Crushing, cuts or lacerations, slips: Indicates danger zones that could cause injury to the operator.

Explosions: indicates a potential risk of explosion or the need to apply for a possible explosion-proof equipment.

General prohibition: it indicates the prohibition of access to the area examined the prohibition of the operation or the prohibition of removing the covers.

Obligation: mentions the obligation to perform the operations described by using the clothing and / or personal protective equipment put at the disposal of the employer (boots, leather gloves, safety shoes, etc.....).



## 1.7 FIELD OF APPLICATION

The DieTronic srl disclaims all liability for damages of any kind that may result from incorrect operation, or imprudent. The machine **MUST NOT** be used by inexperienced or experienced but who performs operations on the machine is not in agreement with those described in this manual and in the attached documentation.



***Is forbidden to use the machine for any use not conforming to that provided in the field of employment***



## 2. SAFETY EQUIPMENT AND SAFETY

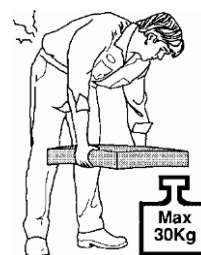
### 2.1 GENERAL CONDITIONS

The machine has been built to the highest standards and equipped accident prevention safety devices suitable for the protection of components and operators.

For obvious reasons it is not possible to predict the multitude of installations and environments in which the machine is to be installed so it is necessary that the customer properly inform the manufacturer of the particular conditions of installation.

The Dietronic s.r.l. disclaims any liability for failure to comply with the rules for proper installation and is not responsible for the systems upstream or downstream of the machine which it provides.

The instructions given in this manual does not replace the provisions of safety and technical data for the installation and operation applied directly to the product, nor the safety regulations applicable in the country of installation and the rules dictated by common sense.





*It is essential to provide proper information to the operators.*

*It is therefore imperative that they read and comply with the technical information in this manual and in the attached documentation.*

The handling and / or lifting of parts or equipment of high weight (over 30 lbs) must be made via suitable lifting equipment.



*Refrain from using the machine if you find any malfunction.*

*Avoid temporary repairs, repairs should only be performed with original spare parts, which must be installed according to the intended use.*

*The responsibilities arising from commercial components are assumed by the respective manufacturers.*

## 2.2 ZONES AND RISK OPERATIONS

### 2.2.1 Terms and environmental risks

The machine must not be installed outdoors or in adverse environmental conditions (sun, rain, snow, wind, too hot or too cold).



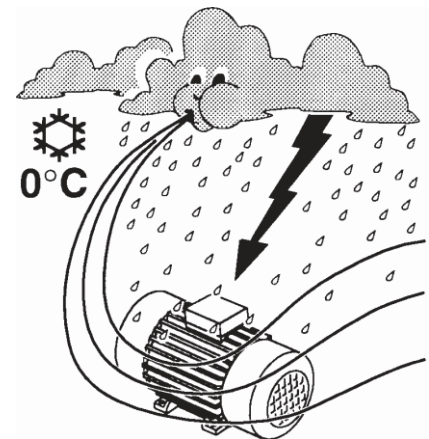
*Also, make sure the absence of any electromagnetic interference that could alter the data to electronic equipment.*



*The series machine is not equipped to work in environments with special conditions of flammability or explosive*

The Dietronic s.r.l. NOT liable for any products used for the use of the machine.

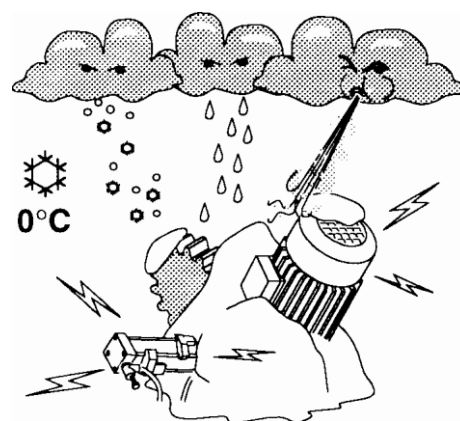
The Dietronic s.r.l. not responsible for disposal of the materials needed to use the machine or production: lubricating oil or emulsified oil, batteries, filters, etc. ... so it is necessary that the customer Provide personally, depending on the rules in force in the country of installation, disposal of these substances potentially harmful to the environment.





*The same precautions should be taken when dismantling the machine.*

The machine has been designed in accordance with good rules relating to the conservation of energy, avoiding waste and unnecessary losses. This means that the manufacturer has given due consideration to the rules in force in our country for energy efficiency.

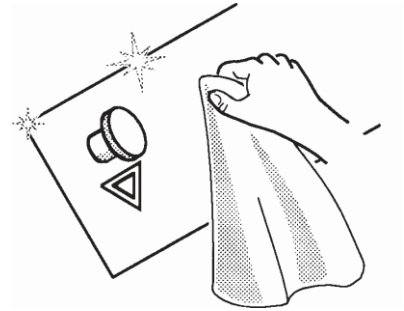


### 2.2.2 Safety devices and signage



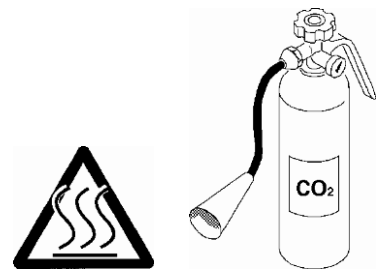
*It is absolutely forbidden to tamper with or remove covers and/or despotic safety, if not for extraordinary maintenance operations. The manufacturer is not liable for damages caused to persons or property if the safety of the machine are excluded or tampered with.*

All signs shall be kept clean and legible, the same is true of the instrumentation.



### 2.2.3 Thermal danger

The machine may have turned off due to overheating of the surface temperature (Ex: motors, transformers, lamps, coils, etc ...) so be careful where you touch and use the personal protective equipment available. In case of fire use foam self-priming and using plants to fight the fire in enclosed spaces.

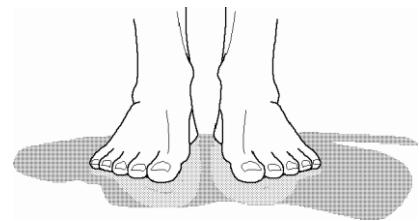


### 2.2.4 Staff clothing

Staff must not wear clothing with long sleeves, ties or belts that would preclude personal safety.



*The staff must NOT access the machine or equipment barefoot or with wet hands.*



Employees must wear the clothing and personal protective equipment provided by the employer: gloves, shoes, etc. ...

### 2.2.5 Maintenance requirements

The maintenance operations should only be carried at a standstill, while respecting the indicated frequencies and the general conditions of maintenance. The maintainer must in any case make



sure that nobody else can restore or operate the machine during maintenance.

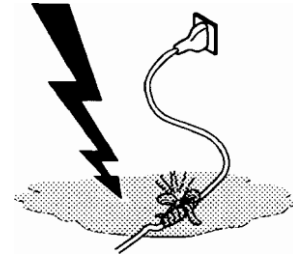


*The removal of the protective devices is permitted only for maintenance by skilled personnel and the machine is stopped or at low speed; finished surgery, the manager must ensure that all the protective devices are put back.*

*CAUTION: Removing the shelters is only allowed after 5 minutes from the moment she took her tension.*

The maintainers should report any malfunction or deterioration due to wear or aging, in order to promptly restore the proper safety conditions.

The cleaning of the machine must be carried out with adequate means and detergents that do not affect in any way the components of the machine it is absolutely forbidden to clean or wash the machine with water jets.



## 2.3 WORK ENVIRONMENT

### 2.3.1 Installation

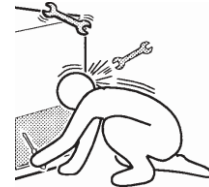
The installation, removal and / or reinstallation in another place, as well as the extraordinary maintenance operations must be carried out only by trained personnel or by the manufacturer or behind your written authorization

### 2.3.2 .Machine in motion

The moving machine is a potential hazard for which it is FORBIDDEN to do maintenance, open the casing otherwise; perform cleaning with the machine in operation.

Any foreign body instead of moving parts and is not part of the machine in this case, wrenches, screwdrivers, bolts, must be removed by before starting.

The operator should always pay attention to the work environment that surrounds it, in order to secure a living space large enough to allow escape routes.



### 2.3.3 Machine stopped or turned off

Also the machine is switched off can be a threat sleepers, cover, edges, etc... are inevitably dangerous, so we recommend caution in handling machine parts.

The Dietronic s.r.l. has eliminated sharp edges and sharp, but in some cases you can not fix it, so it is recommended to use suitable protective equipment (gloves made of leather).

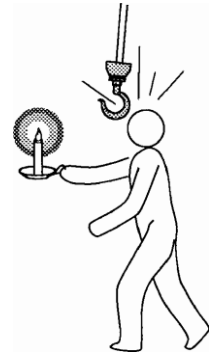


*DO NOT climb on the machine without the necessary precautions (platforms, stairs, etc ...).*

### 2.3.4 Lighting of the work environment

The workplace must be properly illuminated to ensure safety to perform in all operations and maintenance work.

Lighting should avoid stroboscopic effects, dazzling, stress or shade.



### 2.3.5 Noise

The machine at full capacity, assessed individually and with a correct maintenance, generates a level of sound pressure (noise) of less than 80 dBA, then absolutely harmless to the operator.



*If, for its varied and unpredictable installation possibilities, it exceeds the noise threshold permitted by the laws of the country in which the machine is intended, the Customer must take steps to remove the causes or protect workers with appropriate personal protective equipment (headphones), as well as a prior information to sensitize use and a periodic assessment of hearing.*





### 3. CHARACTERISTICS

#### 3.1 GENERAL CONDITIONS

The description of the characteristics of the machine allows you to identify the major components of the same, to refine the technical terminology used in the manual.

The technical terminology is collected in indices.

In this chapter you will find information on the composition machine, features, dimensions, and identification.

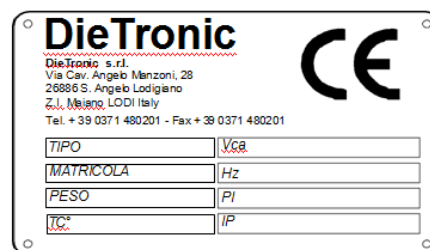
The adjustments, operation, and maintenance are described below transposed considering the information in this chapter.

##### 3.1.1 Machine Identification and builder

The plates attached to the machine must NOT be completely removed, damaged, dirtied, hid, etc ...

The plates should be cleaned regularly and kept in view, that must NOT be hidden with objects and extraneous parts (rags, boxes, equipment, etc...).

The technical data given in this manual does not in any case replace those on the plates on the machine.



SERIES	LCP ANTIRUST
MODEL	LCP ANTIRUST 04
REGISTRATION NUMBER	2016382
YEAR OF COSTRUCTION	2016

##### 3.1.2 Request for intervention and assistance

Dietronic s.r.l.

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### **3.1.3 Safety requirements**

- The terms used in this instruction to localize the different components of the machine , for example right, left, superior, inferior, and so on, always refer to the correct position of the operator during the normal course of work. (in front of the machine).
- Before starting up the machine, the operator has to read the following instructions and have acquired a deep knowledge of specific techniques and machine controls.
- It's recommended that the operator follows a period of training regarding the use of the machine.
- Before installing the machine, check that the area used is compatible with its overall dimensions.
- Do not allow unauthorized and qualified personnel to operate, adjust, or to conduct repairs. Refer also to this manual for appropriate action.
- Before cleaning and / or maintenance of the machine and before removing any protection, make sure the switch is OFF, so as to remove all electrical power to the machine during the intervention.
- The power system must be equipped with an automatic release system upstream of the overall machine and a suitable system grounding that meets all the requirements of industrial standards for the prevention of accidents.
- If you need to take action on the general breaker or in its vicinity, slacken the line to which the switch is connected.
- The movable parts (rollers and gate protection) of the machine does not stop immediately after shut down itself. It is recommended, before working on the machine, to make sure that all movable parts have stopped.
- All inspections and maintenance operations that require the removal of protective security are carried out under the full responsibility of the operator. It is therefore recommended to perform these operations by a qualified and authorized technician.
- Check that all safety devices security (fences, protections, guards, switches, etc.) have not been tampered with and that are fully functional before operating, otherwise arrange for their accommodation. Do not remove safety devices.

- **Do not tamper with the electrical system, the tire or any other mechanism for any reason.**
- **Not getting groped or override the machine while is running.**
- **Do not wear rings, watches, jewelry, torn clothing or baggy such as ties, shoos, unbuttoned jackets or anything who can entangled in moving parts. Wear, however, approved clothing for accident prevention such as, for example, hard hats, sturdy shoes, gloves, ear muffs, safety glasses when necessary.**
- **Do not wear clothing with sleeves at work and particularly during cleaning operations**
- **In the case of repairs you have to ensure that there are:**
  - **No moving parts that can come into operation;**
  - **No unstable pieces located on the machine or in its vicinity;**
  - **In each case, fix them on the top with a suitable locking.**
- **Do not use your hands instead of adequate tools to operate the machine**
- **Don't use the hands or other objects to stop moving parts.**
- **Pay close attention to the labels on the machine every time you preparing to operate on the same or nearby.**
- **And 'you are obliged to keep all the tags readable by changing, if necessary, the position in order to ensure complete visibility to the operator.**
- **the user is also obliged to replace all the tags for whatever reason, have deteriorated or are not clearly visible, requiring new ones to parts service DIETRONIC SRL**
- **If not expressly specified herein, avoid to repair or adjust the machine or part of it when the same, or part thereof, is in operation, in order to avoid being pinched by moving parts.**
- **In the case of machine malfunctions or damage to the components please contact responsible for maintaining, without proceeding with further repairs.**
- **It is strictly forbidden to use the machine for purposes other than those provided and documented. The use of the machine must always be in the manner, times and places designated by the standards of good practice, the**

laws of every nation in the country although there were are no specific rules to regulate the specific industry.

***DIETRONIC disclaims any liability for any accidents or damage to persons or property caused by failure to comply with the requirements for both safety standards listed below. These requirements, together with requirements for installation of the machine and the electrical connections are, moreover, an integral part of the Industrial Accident Prevention regulations of each country. These safety standards complement and not replace the safety rules in force locally. NEVER try to rush or emergency repairs that may affect the proper operation of the machine. IF IN DOUBT, ALWAYS ASK THE INTERVENTION OF A TRAINED. ANY ALTERATION BY THE MANUFACTURER RISE TO ANY LIABILITY 'AND MAKES THE' USER RESPONSIBLE TO THE SAME BODIES RESPONSIBLE FOR THE PREVENTION OF ACCIDENTS.***

## 4. DESCRIPTION OF THE MACHINE

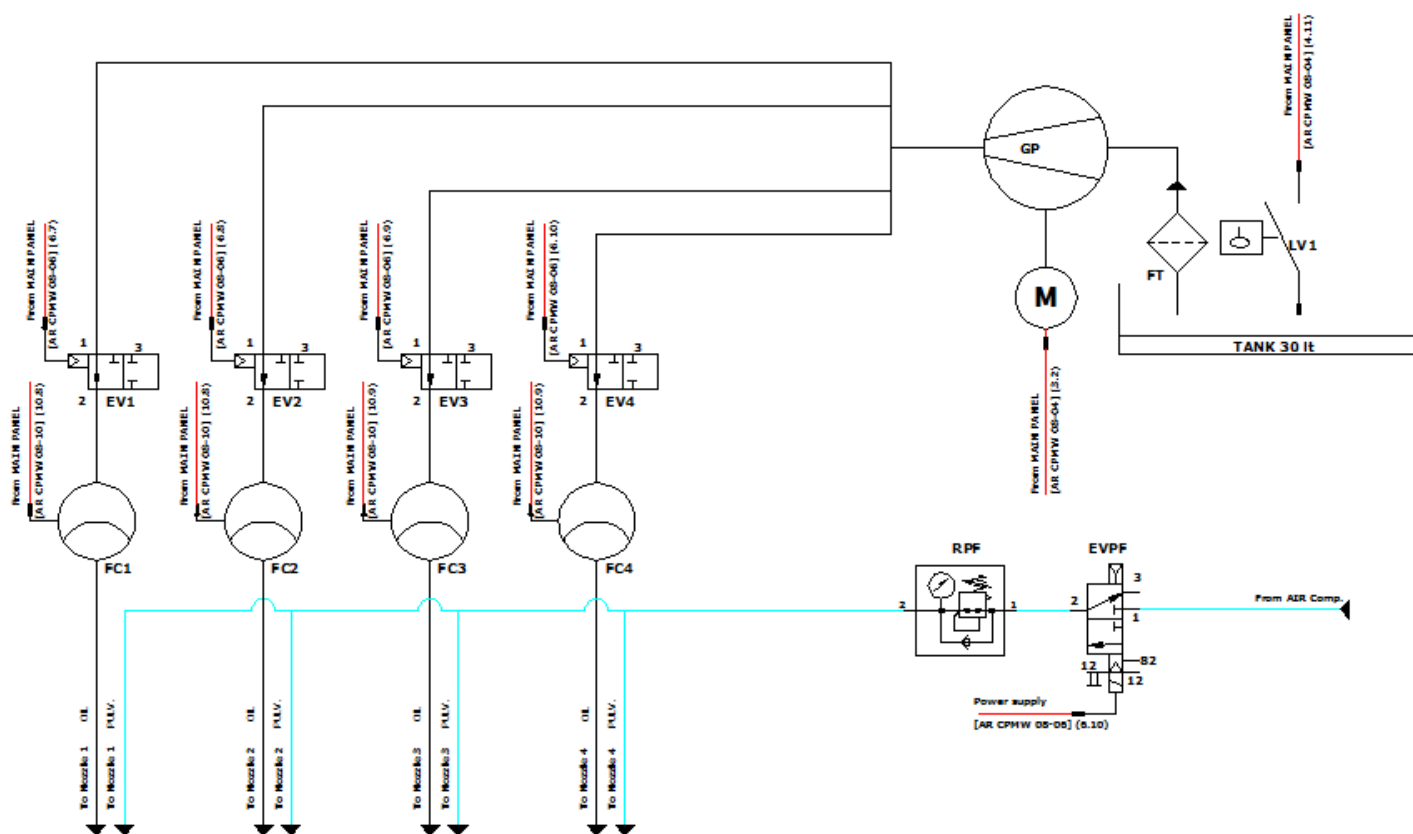
### 4.1 USES

System for application of protective media for tubes and profiles.

The following oils can be used:

PRODUCER	TYPE	CODE

### 4.2 PRINCIPLE OF OPERATION

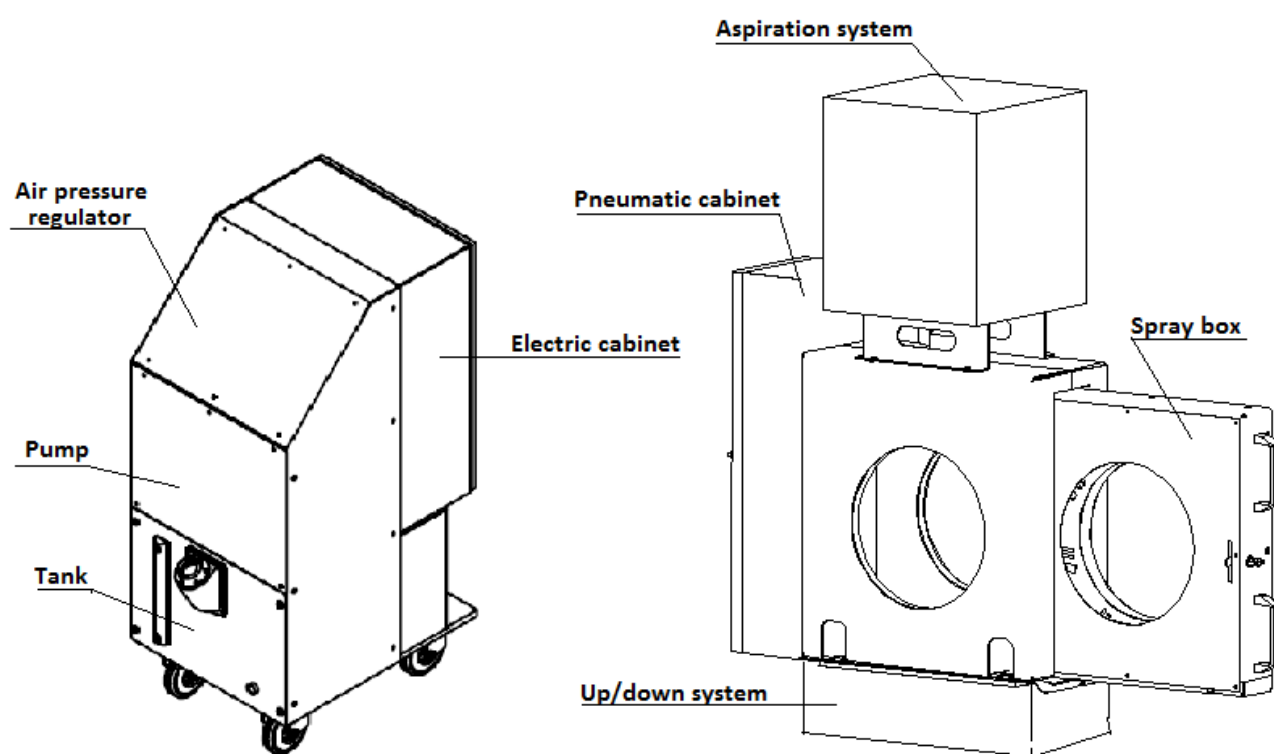


## Principle of operation of the spray system

A motorized pump, sucking in a 30 liter stainless steel tank, feeds 4/8 spray nozzles placed in a walk-through 3-way solenoid valves. The oil in the hydraulic system is dosed through the management of the speed of the motor-pump. In the case of non-use of a spray nozzle the 3-way solenoid valve causes the return to the oil tank of that nozzle. The amount of oil mixed with regulated air atomization determines the uniform application of lubricant on the tube or profile.

The parameter setting happens through a touch-screen placed on the control console of the machine.

### **4.3 COMPOSITION OF THE MACHINE**



#### 4.4 TANK COMPLETE WITH CONTROL UNIT

The tank is constituted by a tank of 30 liter capacity.

Each bowl is equipped with a manual valve to empty it by free fall.

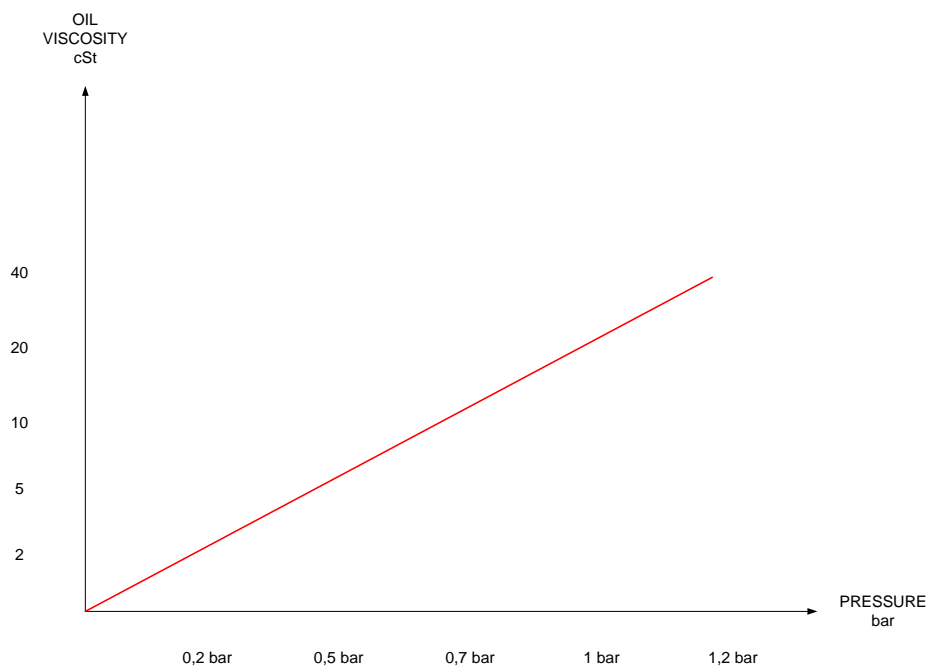
#### 4.5 PNEUMATIC UNIT

The solenoid valve allows to feed the spraying air to the nozzles spraying regulated through the reducer R1.

The pneumatic unit is composed by the solenoid EVP and by the pressure regulator R1.

Adjustment of air spray.

The air supply of the machine must be provided with a hose not less than 1 1/2 inches.



#### 4.6 HYDRAULIC UNIT

The unit is composed of the hydraulic pump to 4/8 outputs motorized (PV1 PV2) and the 3-way solenoid valves (EV1 ..... 8) placed in the box on the side of the fixed part where the spraying nozzles are inserted.

#### 4.7 THE BOX WITH SPRAY NOZZLES REMOVABLE TRAY

The spray box is composed by a removable structure where they are housed 4 (antirust 04) or 8 nozzles (antirust 08). The nozzles are mounted on a plate where it is possible to adjust their position to maintain their distance from the lubrication point constant (50 mm). This adjustment is very important to ensure coverage of the tube or profile to lubricate and to optimize the amount of oil applied.

#### 4.8 SUCTION SYSTEM

The air cleaners of ECO series are suitable for suction and purification of oil mist and dust produced during wet and dry machining processes.

Due to the way they are manufactured, they are appropriate for purifying particles of different sizes. The filtration by coalescence is assured by a double pocket filter with a wide filtering surface.

The unit is provided with a drainage for the recovery of re-condensed coolant liquid.

The air cleaner is equipped with an **Absolute HEPA filter in accordance with European norms EN 1822 (ECO F)** suitable for holding micro-dust, micro-mist and smoke.

The air cleaner, in the P version, (**ECO TWO P, ECO TWO PF**), is equipped with a **pre-filtration system** in order to hold shavings and/or a large amount of liquid pollutants.

In case of gases, fumes and odours, the unit can be equipped with an Activated Carbon Filter.

Air cleaner series ARNO VF with sight control for filter conditions

The air cleaners of ECO series are suitable for suction and purification of oil mist and dust produced during wet and dry machining processes.

Due to the way they are manufactured, they are appropriate for purifying particles of different sizes. The filtration by coalescence is assured by a double pocket filter with a wide filtering surface.

The unit is provided with a drainage for the recovery of re-condensed coolant liquid.

This FAE is available with different degrees of efficiency:

- F8 – F9 Method EN 779
- HEPA H10 – H11 – H12 Method EN 1822.



On the machine it's possible to see the following elements (fig. 4):

- Suction pipe
- Supporting and fixing feet - hole diam. 9 (see centre distances page 6);
- Magnetothermic automatic switch;
- Removable cover for a and b filter extraction (see fig. 5 at page 15);
- Removable cover for c and d filter extraction (see fig. 5 at page 15);
- Sight control filter maintenance
- Drain condensed liquid
- Cover extraction filter e and f (see fig. 6 page 15)

Please note: The basic series ARNO V is not equipped with point C) Magnetothermic, point F) Sight control filter maintenance and point E) Final absolute filtration. This particulars will be shown individually in fig. 4. The preparation for their installation at a later time is standard. On the machine are applied warning labels to complete the information contained in this manual. In case of wear of the plates, please replace them with new ones.

### **WARNING**

#### **BEFORE REMOVING THIS PROTECTION:**

- 1. CLEAR**
- 2. WAIT FOR THE FAN WHEEL STOPPING**
- 3. UNSCREW THE SAFETY SCREWS**
- 4. WHEN INTERVENTION IS COMPLETED, RETIGHTEN THE SAFETY SCREWS**

### **WARNING**

#### **BEFORE OPERATING INTO THE MACHINE FILTERING SET**

### **DRAINAGE FOR THE RECOVERY OF RE-CONDENSED COOLANT LIQUID**

Tips for good drainage of the air cleaner.

## 5. FUNCTION OF TOUCH PANEL

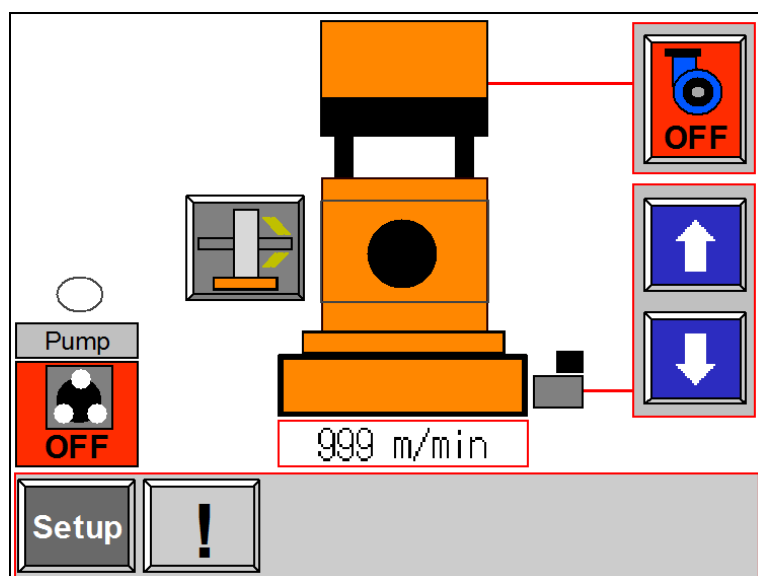
→ **Home page**



When the machine is showing the logo page by pressing the button



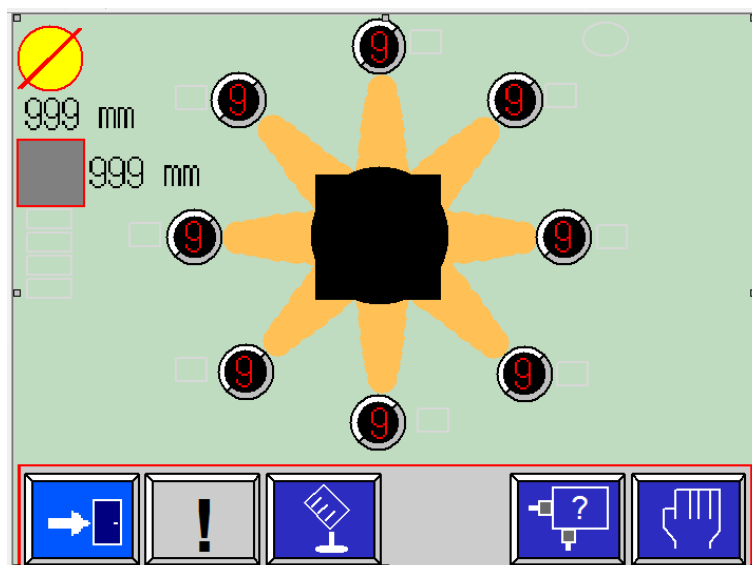
you go to the initial page of the system.



Pressing the display of the machine will take you to the parameter setting.

## → Activation of the spray nozzle

The activation of the nozzles is performed by pressing on the circles representing the nozzles (in the case of the LCP antirust 04 will be displayed 4 nozzles to 180 °, in the case of 'LCP antirust 08 will be displayed 8 nozzles at 45 °)



When the background of the square turns green indicates that the nozzle that is selected is active and appears indicating the spraying of the nozzle.

A manual activation of the system can be selected it by pressing the button:

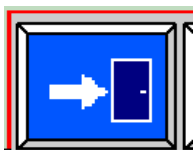


If the manual activation button turns green and intermittently, the red light located on the control unit is active.

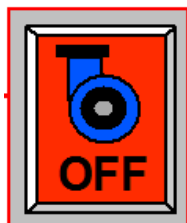
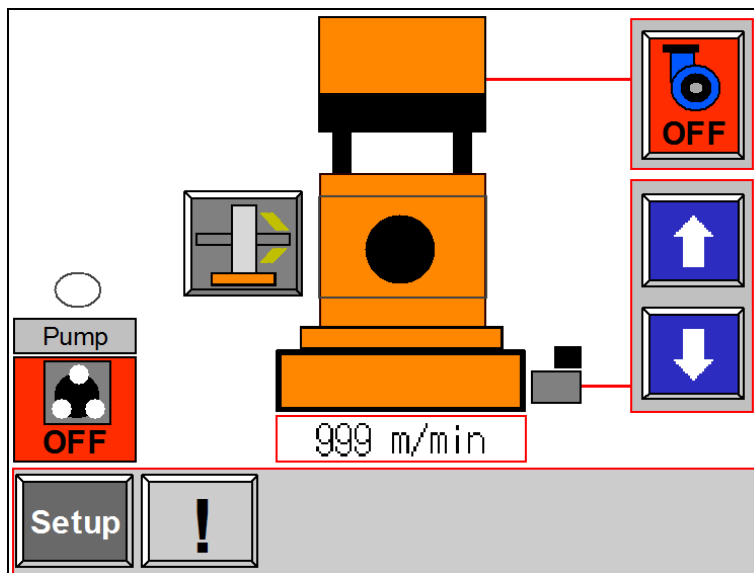
In the upper left of the page you set the shape and the measures of the pipe / profile that will be lubricated. (in case of round the diameter, in the case of square or rectangle the 2 sides of the profile).

This parameter is necessary to determine the amount of product applied in a manner proportional to the speed of the line, in g/m<sup>2</sup>.

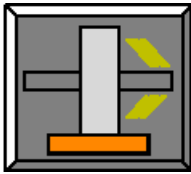
→ **Activation of the aspiration system**



The button above allows you to return to main page:



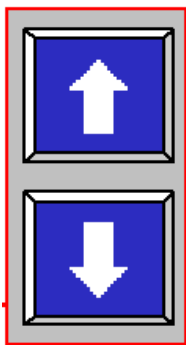
Through the above button is activated the system of suction of the fumes. Pressing for 1 sec. The OFF button is automatically booked its activation, that means that the system will be activated and deactivated by the external signal line. Pressing the button for 3 sec. the system will start in manual mode and will remain on continuously.



(only for systems with air knife)

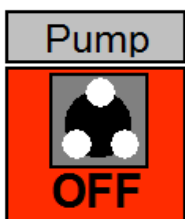
Through the above button is activated the system of air knife. Pressing for 1 sec. The OFF button is automatically booked its activation, that means that the system will be activated and deactivated by the external signal line. Pressing the button for 3 sec. the system will start in manual mode and will remain on continuously.

→ **Activation of the up and down system (only for machine with lifting system)**



Through the above button is activated the lifting system of the box of spraying, the green indicator indicates the status of high or low limit of the box of spraying.

This function serves to center the middle of the pipe with the spray box for an optimization of the distance of the nozzles from the point of lubrication, and an optimization of the amount of product dispensed.



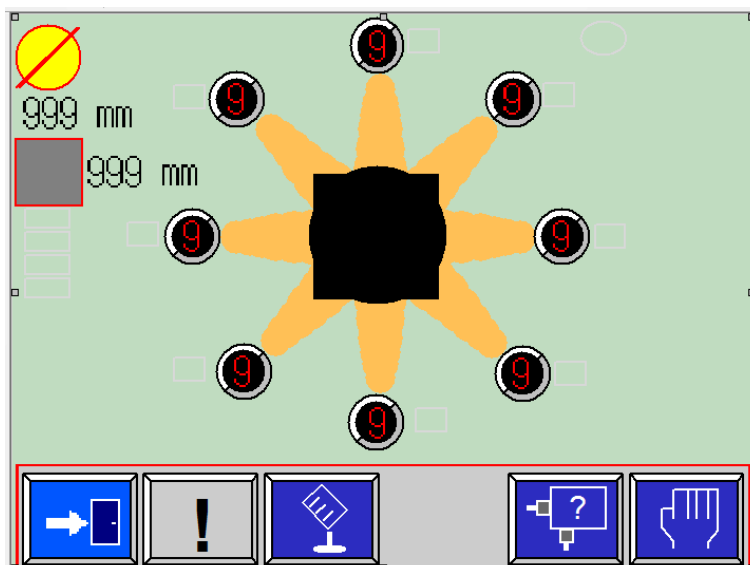
The above report shows the status of the oil pump



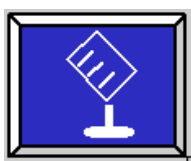
The above display indicates the speed of the line.

This information must be displayed properly for correct estimates of the weight applied to the different line speeds.

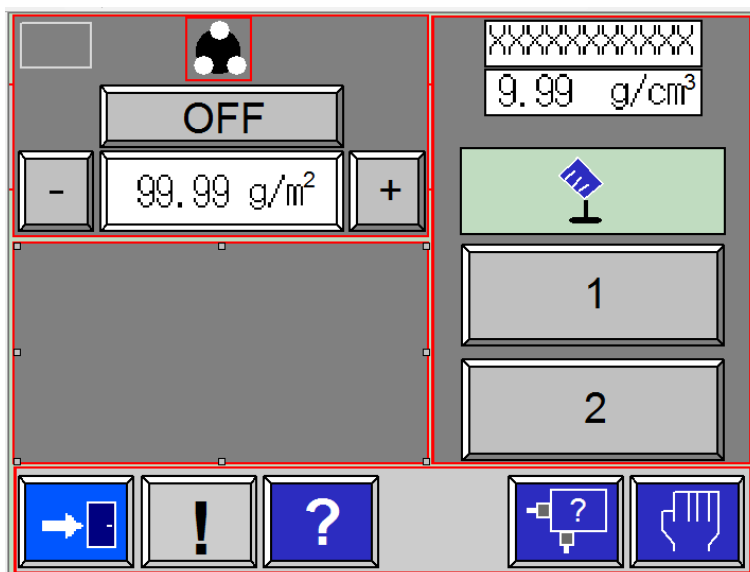
→ **Management of the oil quantity**



From the page selection of nozzles, pressing the button:



You can enter on the page parameter the amount of oil applied:



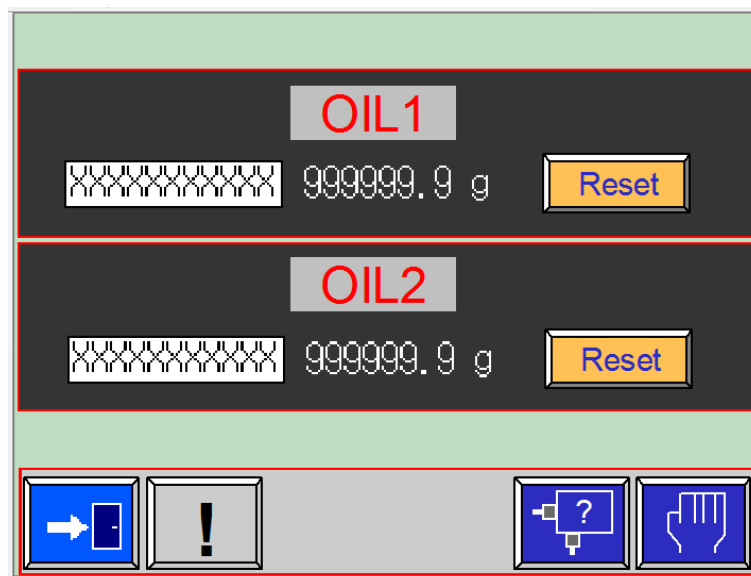
At the top left through the ON OFF button you can activate / deactivate the pump oil. While using the + and – you can regulate the amount of oil applied in the case of manual operation is shown in g / min, while in automatic mode in g/m<sup>2</sup>.

On the right side of the keyboard, you can choose up to 2 types of lubricants with keys 1 and 2 (only for systems designed with double tank of lubricant), bringing the consideration density in g/cm<sup>3</sup>. The correct setting of this parameter allows a precise calculation of the amount of oil applied. (The parameter must never be equal to 0).

### → **Information on consumption of oil**

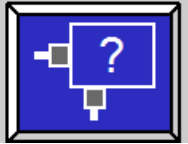


Using the button above, you can access to the page of the display for information on lubricant consumption in grams.

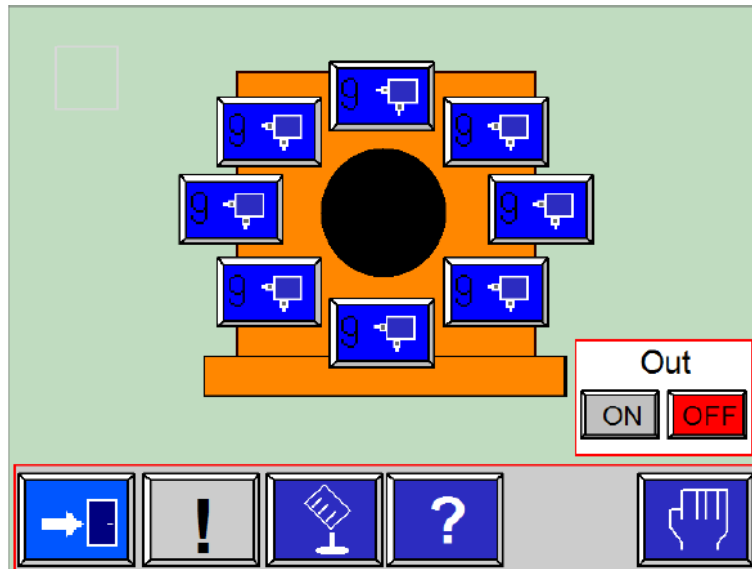


Through the RESET button can reset the value

Flow Sensors (only for the prepared machines)

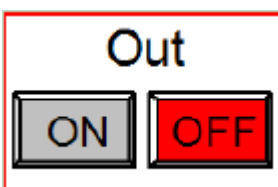


Through the button above the page is accessed for the selection of sensors for controlling the flow.



Using the buttons representing each sensor they can be activated (green color) or disabled (color blue). This system allows the real-time control of dispensing of the oil, in case of anomalies the button turns red and the red lamp on the switchboard will light up.

To reset the alarm , turn off the pump , turn off the flow sensor , wait a few seconds and turn on the flow sensor and then reactive the pump Pressing ON button



the button changes to green.

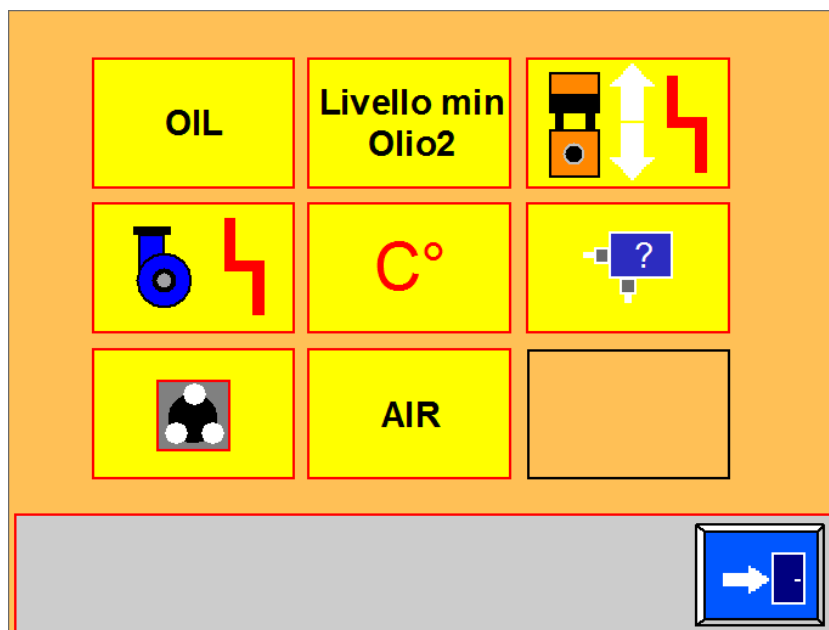
It means that it is possible remote the alarm signal of the flow control.



## → Displaying alarms



The indicator above the display indicates a fault. Pressing the button displays the screen of alarms:



The page shows the list of alarms displayed by the machine.

- Min Level Oil1
- Min Level Oil2 (only for systems with double tank)
- Reporting speech motor thermal lift
- Reporting speech motor thermal vacuum
- Error heating resistance (optional)
- Error sensor flow
- Oil pump malfunction report
- No compressed air

## **6. INSTALLATION**

### **6.1 POSITIONING AND INSTALLATION**

The installation of the machine must be carried out by qualified personnel. Locate a suitable location for the installation of the machine.

Verify that the selected position there are adequate free spaces, in order to allow the use and the maintenance in conditions of safety.

### **6.2 STARTING AND STOPPING**

#### **TO START THE MACHINE**

Set the mains switch to ON

#### **TO STOP THE MACHINE**

Set the mains switch to OFF

It is recommended for longer life of the machine, to avoid as far as possible, repeated starts and stops.

### **6.3 SAFETY DEVICES**

The machine is fitted with the following safety devices:

Fixed guards side mesh

Mobile security front side drain wire

Magneto-thermal switch 16 A 380 VAC three-phase (G1)

### **6.4 CONNECTION TO RENEWABLE ENERGY**

Check that the supply voltage indicated on the nameplate is the same as the network. Connect the power supply cable using the cable gland provided on the electrical and fasten on the top of the main door lock.

DIETRONIC disclaims any liability arising from an electrical connection does not match the industry standards for the prevention of accidents.

## 7. MAINTENANCE

### **WARNING: STOP THE MACHINE**

Before starting the maintenance procedure to do the following.

Turn the main switch of the machine OFF

Make sure that the tap has been tightened air supply

Make sure that all moving parts have completely stopped

Wear all personal protective equipment prescribed by the regulations in force concerning safety at work.

The maintenance operations must be performed by individuals who are aware of the maintenance procedures and precautions to be taken.

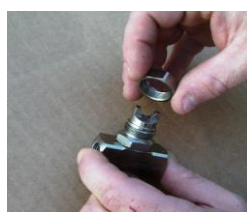
### **7.1 MAINTENANCE OF LUBRICATION MACHINE**

- Keep clean, with a periodicity of 2 months, the tanks lubricant reservoir.
- Keep clean, with a periodicity of 6 months, the spray nozzles.
- Provide filter replacement cleaner (check the display of the suction place the pointer on the red band indicates that the filters are saturated and must be replaced).

#### **7.1.1 MAINTENANCE OF THE NOZZLES**

Carefully clean the nozzles only if you need to because it was created a nozzle clogging.

Remove the hat nozzle, with the aid of tools correct remove the nozzle and arrange for its cleaning. And 'advisable to provide in any case in this operation with a periodicity of 6 months guaranteeing the correct operation of all nozzles.



### **7.1.2 MAINTENANCE OF THE PUMP**

Is not provided for any type of maintenance

### **7.1.3 MAINTENANCE OF THE TANK**

Replace the oil filter that is located inside the tank with a periodicity of 6 months and cleaning of tanks with periodicity 2 months.