



**DEFOGLIATORE  
CON VARIATORE DI VELOCITÀ**

**OLIVE LEAF REMOVER WITH ADJUSTABLE  
SPEED VARIATOR**

Art. DEF



**USE & MAINTENANCE MANUAL**



**WARNING:** After opening the packaging and before carrying out any operation on the machine, carefully read all the instructions contained in this manual and follow them during use.



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## EC Declaration of Conformity

(Directive 2006/42/EC, Annex II(A))

As a manufacturer

GRIFO MARCHETTI S.r.l.  
Via Mantova, 1  
26034 Piadena Drizzona (CR)  
Italia

DECLARES THAT

The machine model                    **DEFOGLIATORE CON VARIATORE DI VELOCITÀ  
DEF**

complies with the relevant provisions of Directive 2006/42/EC (Machinery), as well as Directives 2014/35/EU (Low Voltage) and 2014/30/EU (Electromagnetic Compatibility).

Name and address of the person authorised to compile the technical file for the machine:

GRIFO MARCHETTI S.r.l.  
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Italia

Identification and signature of the person authorised to draw up the declaration on behalf of the manufacturer:

Rosa Busi

Place and date of declaration:

Piadena Drizzona (CR), 31 ottobre 2023

# 1. INTRODUCTION

## 1.1 Purpose and content of the instructions

The purpose of this instruction manual is to provide the user of the machine with the information necessary for safe use and maintenance. The recipient of this information is the operator, defined as the person in charge of installing, operating, adjusting, cleaning, repairing, and maintaining a machine.

The definition of 'operator' in a broad sense gives the term a very broad meaning, encompassing all persons who perform specific tasks related to the machine and is not limited to operators involved in production. Operators are all the people who have to do with the machine in the various phases of its existence. The following information, therefore, concerns not only the use of the machine in the strict sense, but all phases of its foreseeable existence, including transport, assembly, dismantling, dismantling, scrapping.

The operating and maintenance instructions must be followed by operators in order to reduce the risk of injury or illness to persons or animals and the risks of damage, malfunction or inefficient operation of the machine.

This information relates in particular to:

- the fundamental parts of which the machine is composed;
- its principle of operation;
- the safety devices with which it is equipped;
- the limits and intended use;
- the requirements for operators;
- installation and connection methods;
- the modalities of commissioning;
- control devices;
- the methods of intervention by the operator;
- workstations and human-machine interfaces;
- preliminary and periodic checks;
- maintenance interventions and frequencies of intervention;
- the methods of decommissioning the machine and its parts;
- the residual risks and the related protective measures to be taken;
- the personal protective equipment to be used;
- warnings and rules of conduct to be adopted.

This manual reflects the configuration of the machine as of the date indicated on the title page. In the event of modifications to the machine that affect the way it is used and maintained, this manual must be kept up to date.

The instructions must be used when training workers in the use of the machine and must be kept carefully in a place protected from wear and tear, but in such a way that they can be easily consulted.



Before starting any action on the machine, it is mandatory to read the instructions in full.

## 1.2 How to read and store the Instruction manual

The information necessary for the safe use of the machine is given below, collected in chapters and paragraphs divided by topic. This division is mentioned in the table of contents and is intended to facilitate reading, but each chapter is related to the others and the manual must be read in its entirety. Any attachments to the instruction manual are an integral part of the same.



Before starting any operational action on the machine, it is mandatory to read the instructions in the instruction manual.

The manual must be kept with care, in a suitable place, so that it is always available for consultation in the best state of preservation.









The instruction manual is an integral part of the machine and as such must be kept for the entire life of the machine and transmitted to any other user or subsequent owner.

Any additions to the manual that the manufacturer deems appropriate to send to users must be kept together with the manual, of which they will be considered an integral part.

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### 1.3 Symbology and abbreviations used

The instructions in the manual are accompanied by the following conventional symbols. Depending on whether the warnings are of a general nature or of special situations, generic or specific pictograms are used, respectively.

SYMBOL	MEANING
	General danger. Highlight a dangerous situation.
	General obligation. Highlight a required action.
	Blanket ban. Highlight a prohibited action.
	Example of a specific hazard (moving parts).
	Example of a specific obligation (wear safety shoes).
	Example of a specific prohibition (prohibition of removing shelters).

### 1.4 Liability

The guarantee of proper operation of the machine is strictly dependent on the correct application of all the instructions that are contained in this manual.

	The only configurations and intended use of the machine allowed are those expressly indicated in the manual.
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With reference to what is reported in this instruction manual, Grifo Marchetti S.r.l. declines all responsibility in the event of:

- failure to follow the installation, use and maintenance instructions in the manual;
- inadequacy of the plant and environmental conditions in which the machine operates;
- unauthorized modifications to the machine;
- tampering with guards and protective devices;
- tampering with the control system;

- use for purposes other than those indicated in the use and maintenance manual;
- use and maintenance of the machine by unskilled and unauthorized personnel;
- use by children or persons with reduced physical, sensory or mental capabilities;
- use of non-original spare parts.

## **1.5 Warranty**

The warranty of the machine is valid for 24 months from the date of delivery of the machine and entitles you to the repair and replacement of parts that are found to be defective.

Apparent defects and any discrepancies, under penalty of forfeiture, must be communicated within 8 days of receipt of the goods. Any other defect (not apparent) must be reported within 8 days of discovery, within the maximum warranty period.

The buyer shall only have the right to request the repair or replacement of the goods, with the absolute exclusion of any right to compensation for any damage, direct or indirect, of any nature whatsoever.

The repair or replacement of defective materials will take place at the Grifo Marchetti S.r.l. plant or at the authorized service center, to which the returned materials must be shipped carriage paid. Grifo Marchetti S.r.l. or the authorized service center will return them freight collect.

In order to ensure the proper functioning of the machine, Grifo Marchetti S.r.l. or the authorized service center may, at their discretion, carry out a repair or replace the parts judged to be defective.

Defective parts can be replaced with new parts or, as far as possible, put back in perfect working order. Replaced parts become the property of Grifo Marchetti S.r.l. or the authorized service center.

Warranty benefits are excluded in the event that a failure is caused by improper use, external causes or mechanical damage caused by accidents. The same is applicable in case of repair, adaptation, modification or addition of material of other brands, not authorized by Grifo Marchetti S.r.l.

Repaired or replaced parts benefit from the warranty only if the warranty period is still valid.

Shipping and shipping costs are the responsibility of the Buyer. The warranty start date is as stated on the sales document.

## 2 MACHINE DESCRIPTION

### 2.1 Intended use and limits of use

The DEFOLIATOR WITH VARIABLE SPEED DRIVE, DEF model, is particularly suitable to meet the needs of small and medium-sized olive producers. The machine has been designed and built to separate olives from leaves and twigs by blowing air.

The powerful electric motor with which the defoliator is equipped, in fact, moves a 5-blade fan with a diameter of 30 cm placed under the hopper, an optimal position to channel the air flow in the right direction and work efficiently.



It is forbidden to use the machine in a manner that differs from its intended use or to modify it.

The use of the machine in a manner and for purposes other than those described in this manual constitutes incorrect use and relieves the manufacturer of any liability.

In particular, the following are prohibited:

- the use of the machine in environmental conditions other than those indicated in the table showing the technical data;
- the use of the machine in potentially explosive environments;
- the use of the machine by children or persons with reduced physical, sensory or mental capabilities;
- any cleaning, maintenance, assembly or disassembly operation without first removing the plug from the power socket;

### 2.2 Components and principle of operation

Thanks to the inclination of the loading box, the olives, loaded manually by the operator, fall to the underside, where a jet of air produced by a fan separates the fruits from the leaves; The ventilation spout has an adjustable air conveyor.

The machine is equipped with a variable speed drive that allows the adjustment of the air flow.

At the ventilation system there is an opening with a chute, under which it is necessary to place a container for collecting the fruits.

The structure is supported by four steel legs; There are also two wheels and a handle for handling.

For its operation, the machine requires a connection to the power supply, which can be disconnected by disconnecting the socket-plug connection.

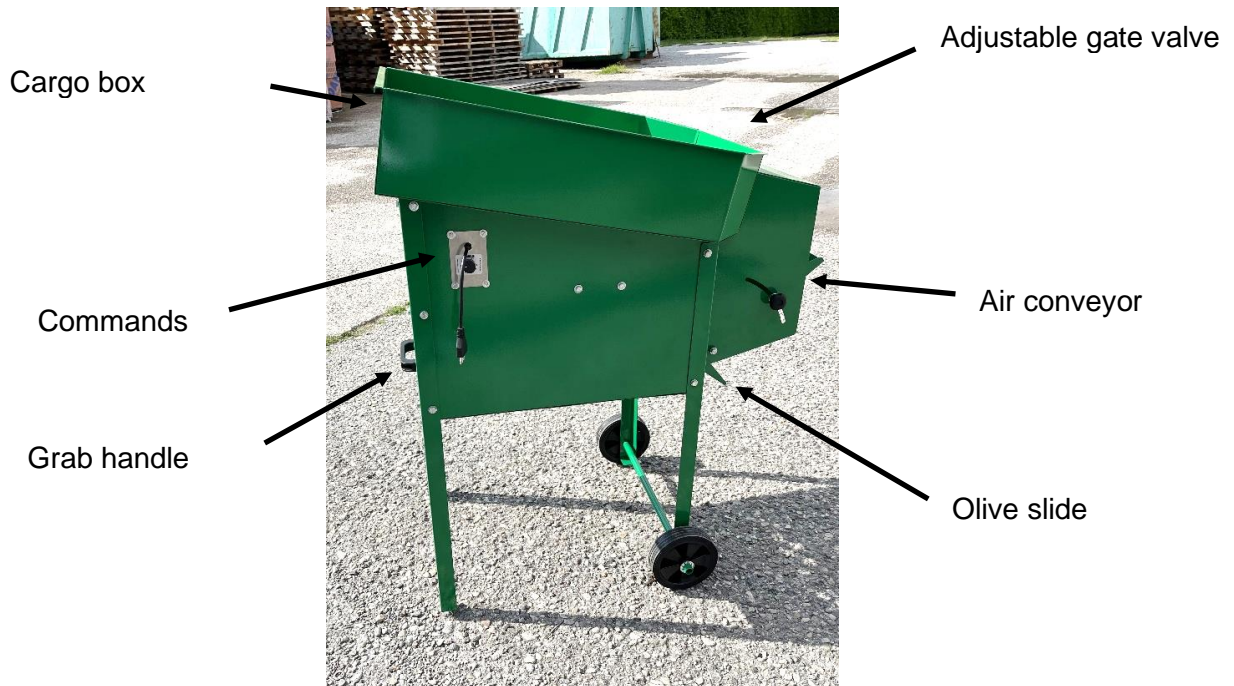


Fig. 2.1 – Overview

### 2.3 Rating plate

Each machine is equipped with an identification plate showing the model, serial number, year of manufacture and essential technical data. In case of requests for intervention, under warranty or not, it is necessary to provide the serial number.



Fig. 2.2 – Rating plate



It is forbidden to remove the identification plate until the machine is decommissioned, at which time it is detached from the support and destroyed.

## 2.4 Controls

The start and stop of the DEFOLIATOR WITH VARIABLE SPEED DRIVE, model DEF is done by means of the speed adjustment control.



Fig. 2.3 – DEF variable speed drive

## 2.5 Safety devices

The fan is completely segregated by fixed guards that prevent you from getting your fingers close to the moving blades. The guards are tied to the machine with screws that can be removed by the use of a tool.



It is forbidden to bring your hands or other objects close to the moving blades.



Tampering with the shelters is prohibited. If they are removed for cleaning and maintenance, they must be reassembled and secured before restarting the machine.



Fig. 2.4 – Ventilation grille



Fig. 2.5 – Intake grille

## 2.6 Technical Data

Material	Painted steel
Voltage	230 V Monophase
Power	Motor 220 W
Dimensions	110x62x105 cm
Bin	76x62 cm
Weight	43 kg
Operating Temperature	+ 5°C/+45°C
Recommended humidity	50% a 40°C

## 3 SAFETY

### 3.1 General warnings

To protect your safety and that of others, it is important to behave carefully and responsibly and in particular to scrupulously comply with the instructions and warnings described in the instruction manual.

In addition to the general warnings, see also the specific warnings in the various chapters, where the different phases of use of the machine are explained.



Do not leave the packaging elements (box, cardboard, nylon, etc.) within the reach of children, as they are potential sources of danger.

After opening the packaging and before carrying out any operation on the machine, carefully read all the instructions contained in this manual and follow them during use.



Wear suitable clothing and personal protective equipment during the various phases of use of the machine.

In particular, wear tight-fitting clothing, free of elements that can catch on moving parts (unfastened sleeves, scarves, etc.). Do not wear bracelets, necklaces. Pick up any long hair.



Use the machine in accordance with its intended purpose and the limits of use.

Using the machine in conditions other than those intended or modifying parts of the machine may result in serious hazards for the operator and other persons who may be in the vicinity of the machine. Failure to comply with the intended use and limits of use of the machine is incorrect use and relieves the manufacturer of any responsibility for the possible consequences.

Do not make any modifications on the machine without authorization.



Leave enough free space around the machine to allow easy access to the service points.

Intervention points must be easily and safely accessible. When positioning the machine, also make sure that the decking is stable and secure. You also need to keep your workplace tidy and free of hindrances.



It is forbidden to tamper with guards and protective devices.

Tampering with or removing guards or protective devices will expose persons approaching the machine to serious risk to their safety. If guards need to be opened or removed for cleaning or maintenance, they must be reset before restarting the machine.



It is forbidden to operate on moving parts.

Cleaning and maintenance work must be carried out when the machine is stationary. Before performing any maintenance operation, the Lockout/Tagout procedure (LO. TO.) for isolating the machine from its energy sources (see the chapter on maintenance).



Do not allow unauthorized persons or animals to approach the machine.

The machine must be used by an authorised, trained and trained person suitable for the task. Any limitations in the ability to judge and/or intervene due to imperfect psychophysical conditions (e.g. disability, use of drugs, alcohol, etc.), even temporary, may result in a serious danger for the person concerned and for people in the vicinity of the machine.


The operator in charge of using the machine must remain in the vicinity of the machine, keeping constant supervision of its correct operation.



Do not leave the machine exposed to the elements.

When not in use, connect the machine from the power supply and store it in a place protected from rain, dust, etc.

Do not clean electrical parts with water or other liquids.

	Perform Scheduled Maintenance.
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To ensure the safety and functionality of the machine over time, it is essential to carry out the planned maintenance interventions.

If faults or malfunctions are detected, do not use the machine and notify authorized personnel for maintenance. Do not improvise solutions that have not already been tested and are not within your competence.

### 3.2 Operator Requirements


The use of the machine is allowed only to professional users, in possession of adequate training and specifically authorized.




Workers in charge of the use of this machine must receive appropriate safety training and training, with regard to the conditions of use of the equipment and foreseeable abnormal situations, in accordance with Art. 73 of Legislative Decree 81/08.


Operators must be suitable for the work and able to attend to the needs related to the activities related to the machine during all operating phases. Any limitations in the ability to judge and/or intervene due to imperfect psychophysical conditions (e.g. disability, use of drugs, alcohol, etc.), even temporary, can lead to a serious danger for the person concerned and for people in the vicinity of the machine.

In order to better define the field of intervention and the consequent assumption of responsibility by each individual operator, as well as to make it easier to read and understand this manual, the following list of professional profiles has been drawn up, which are necessary in all types of intervention.

The operations related to the phases of lifting, handling, installation, testing and initial commissioning of the machine, as well as maintenance, decommissioning and decommissioning operations, must be carried out by operators with specific technical skills, according to the following distinction.



QUALIFICATION		INTERVENTIONS
	Machine Operator	Personnel qualified to carry out only simple tasks, i.e. the management of the operating modes of the machine through the use of control devices, the loading and unloading of materials used during the production process and the daily cleaning activities.


	Mechanical Maintenance Technician	Qualified personnel able to intervene in normal conditions, to carry out normal adjustments on the mechanical parts, minor routine maintenance and necessary repairs.
	Electrical Maintenance Technician	Qualified personnel able to intervene under normal conditions for electrical, adjustment, maintenance and repair interventions.
	Installer / Technician	Specialized technician authorized to carry out operations of a complex and extraordinary nature.

	It is forbidden to use it in the presence of other unauthorized persons near the machine.
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### 3.3 Residual risks

The machine must be used in accordance with the instructions in this manual, in particular in compliance with the intended purpose and the limits of use. The machine has been designed to eliminate or minimize risks to the operator and any third parties. In any case, attention must be paid to residual risks by taking the necessary behavioural measures.

	<p><b>MOVING PARTS</b></p> <ul style="list-style-type: none"> <li>- It is forbidden to remove the protective cover before disconnecting the machine from the power supply.</li> <li>- Do not insert foreign objects inside the crankcase.</li> </ul>
	<p><b>MATERIAL PROJECTION</b></p> <ul style="list-style-type: none"> <li>- The jet of air produced by the fan expels leaves and branches out of the machine.</li> <li>- During the process of separating the leaves from the olives, never bring your face close to the air conveyor from which the waste comes out.</li> <li>- Stop the machine before picking up the olive box.</li> <li>- Wear safety goggles.</li> </ul>

	<p><b>LIVE PARTS</b></p> <ul style="list-style-type: none"> <li>- Do not use the machine barefoot.</li> <li>- Do not pull the plug out of the outlet by pulling on the power cord.</li> <li>- Do not allow the power cord to come into contact with hot parts, oil, liquids in general, and with sharp parts or edges.</li> <li>- Never extinguish any fire or fire on electrical parts with water.</li> </ul>
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	<ul style="list-style-type: none"> <li>- Before carrying out any maintenance, set the switch to "0" and disconnect the plug from the power socket.</li> <li>- Maintenance work on the machine's electrical equipment should only be carried out by authorized electrical maintenance technicians.</li> </ul>
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### 3.4 Personal protective equipment

PPE must be used when the risks associated with the use of the machinery cannot be avoided or sufficiently reduced by technical preventive measures, collective protective measures or organisational measures.

The choice of PPE must be made, according to the actual conditions and the environment of use, on the basis of the risk assessment and the identification of the characteristics necessary for the PPE to be adequate to the risks. To this end, reference should be made to the machine's instruction manual and other sources of information (technical standards, guidelines, etc.).

The use of the machine requires the use of:

DPI		DA INDOSSARE DURANTE
	Safety shoes with reinforced toe cap, non-slip sole.	Montage Transport Utilization Disassembly
	Protective gloves.	Montage Transport Utilization Disassembly
	Hearing protectors.	Utilization
	Safety goggles	Utilization

## 4 HANDLING AND INSTALLATION

### 4.1 Packaging and supply

The machine is supplied disassembled in a single packaging and must be assembled before its use. Check that the packaging has not been damaged in transport and that the delivery corresponds to the order.

### 4.2 Installation Site Requirements

The machine must be installed in an environment:

- protected from the elements;
- protected from dust and moisture;
- free of potentially explosive atmospheres;
- equipped with lighting suitable for the use of the machine.

The machine must be positioned and/or secured in such a way that:

- leave a space around it that allows the operator to move without hindrance;
- ensure its stability, even in the event of accidental impacts, with particular attention to the ground support surface.



Scegliere una posizione in prossimità di un punto di distribuzione di energia elettrica, in modo da limitare al minimo la lunghezza delle tubazioni/cavi da utilizzare per il collegamento.

### 4.3 Handling the machine

The Defoliator has two wheels and a handle for handling.

Before handling the machine, you must:

- disconnect the power supply;
- remove all elements that may fall during handling (e.g. materials or tools resting on the machine);
- Move people away from the car and along the way.



When handling the machine, pay attention to the stability of the machine.

#### 4.4 Connection to the power grid

The machine must be connected to the mains via a socket-plug connection.

For connection to the mains, it is important to:

- Check that the mains voltage is the same as indicated on the rating plate and that the socket is suitable.
- Check that the electricity distribution network is equipped with an earthing system that complies with the regulations in force in the country of installation. If in doubt, ask for a thorough inspection of the fuel system by specialized and qualified personnel.
- Check that the socket, intended for connecting the machine plug, is sized and protected upstream by means of a suitable protection switch.
- Avoid leaving cables exposed to shocks, the passage of vehicles or people and any other situation that may threaten their integrity.
- Protect the cable, the connection point, the motor and any other live parts from moisture and any substances present in the installation environment of the machine.
- When using an extension cord, make sure that it is compatible with the engine power and environmental conditions, especially when used outdoors.



To isolate the machine from the electrical supply, remove the plug from the outlet.



All wiring and control operations of the electrical system must be carried out exclusively by specialized personnel.

## 5 USING THE MACHINE

### 5.1 Security checks

Before putting the machine into operation, the following checks must be carried out:

- Check the integrity of the electrical cables and in case of injury or deterioration of the same, replace them with others with the same characteristics.
- Check that there are no foreign objects inside the work area. If they are present, before removing them, disconnect the machine from the power supply,
- Check that the guards are properly installed and secured.
- Check that it is properly connected to the power supply.
- Test the controls.



If any abnormality is detected, do not start the machine and notify the maintenance personnel.

### 5.2 Duty Cycle






Once the safety checks have been carried out and it has been verified that there are no people or obstacles at the workstation, the work can begin. The sequence of operations is as follows:

1. Place a container at the chute where the fruit will come out.
2. Adjust the air conveyor and exhaust gate valve according to your needs.
3. Give the command to turn on the machine.
4. Manually load the olives into the bin.
5. The olives fall by gravity into the separation zone where the jet of air, produced by the fan, separates the leaves from the fruits.
6. At the end of the process, switch off the machine and disconnect it from the power supply.



After each work cycle, remove all material on the machine and inside the separation chamber (olives, foliage, waste, etc.).

## WARNINGS

	It is forbidden to operate on elements of the machine when they are in motion.
	Do not manoeuvre if people are close to dangerous areas.
	It is forbidden to carry out operations that are not within its competence. Maintenance work may only be carried out by specially authorised personnel.
	Tampering with the machine's guards and safety devices is prohibited.
	Report faults and malfunctions to maintenance personnel in good time.




## 6 MAINTENANCE

### 6.1 Warnings

The machine must be subjected to the maintenance provided for in the instruction manual and according to the rules of good technique to ensure that the correct functioning of the machine and in particular of the means of protection present is maintained over time.


Scheduled maintenance includes checks and interventions on wear parts, with the aim of preventing interruptions and breakdowns. It is advisable to keep a record of maintenance and inspections.

Limit contact with oils and emulsions. Avoid soiling your hands and clothing (do not wear dirty overalls, do not clean your hands on the suit, do not keep dirty rags in your pocket); Wash your hands often (at the end of work, before eating, going to the bathroom, and putting on gloves).

	<p>Please read the following safety notes carefully before working on the machine. The manufacturer cannot be held responsible for any accidents to property and persons resulting from their non-compliance</p>
	<p>Routine maintenance operations, even if simple, must be carried out by qualified and authorized personnel.</p>
	<p>If chemical substances (lubricants, detergents, etc.) are used, the instructions in the safety data sheets of the products used must be respected.</p>

### 6.2 Isolating the machine

Maintenance work must be carried out when the machine is stationary.

	<p>Before each maintenance work, set the switch to "0" and disconnect the machine from the power supply. Make sure there is no residual energy.</p>
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Throughout the maintenance work, it must be ensured that no other persons are allowed to operate the machine. If the connection is not visible from the position occupied during the operation:

- unplug the power plug and bring it to a visible location;
- affix a "Maintenance in progress" sign to the machine.



After the maintenance work is complete, check that the machine's safety devices are in place and in proper working order.



Work on the electrical system must only be carried out by qualified personnel.

### 6.3 Planned interventions

To maintain the functionality and safety of the machine over time, the following interventions must be carried out. The frequency of interventions suggested below is indicative and must be evaluated on the basis of the actual time of use of the machine.

OPERATIONS	FREQUENCY
<b>GENERAL INSPECTION AND CLEANING</b> Check that the machine is in good general condition. Wipe the machine with a dry cloth, especially the parts that the operator comes into contact with.	Every time you use
<b>MECHANICAL TIGHTENING</b> Check the tightness of screws, nuts, bolts.	Monthly

## 7 TAKING OUT OF SERVICE

### 7.1 Decommissioning and storage

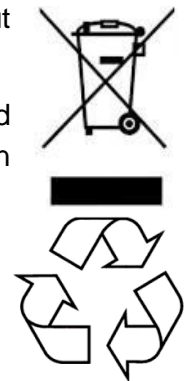
If the machine is to be taken out of service for a long period, it must be disconnected from the power supply, covered with a cloth and stored in a place that protects it from atmospheric agents, humidity, dust, corrosive agents and in general from all factors that may affect its integrity.


### 7.2 Dismantling and decommissioning

The materials from which the machine is made do not pose a danger to operators, but can be dangerous to the environment if they are not treated correctly.

If the machine is demolished, it must be broken down into its homogeneous parts and these parts must be disposed of separately in accordance with the laws in force on waste disposal.


The separate collection of waste and the subsequent treatment, recovery and disposal operations promote the production of equipment with recycled materials and limit the negative effects on the environment and health caused by improper waste management. It should also be remembered that the improper and abusive disposal of waste entails penalties established by current local regulations on disposal



	Wear suitable clothing and the necessary personal protective equipment, depending on the way in which the operations are carried out.
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Before proceeding, taking into account the actual conditions present in the place where the machine is installed, the operating phases must be planned and the risks related to them must be assessed, adopting the necessary protective measures.

- Provide a large work area free of clutter, leaving the necessary space for operations.
- Delimit the area by prohibiting access to non-experts, defining the areas where the materials are stored.
- Disassemble all parts of the machine by dividing the materials into homogeneous groups (metal carpentry, pipes, valves, oils and greases, etc.)

	Electrical components are collected separately and must be disposed of in accordance with the regulations in force in the country of installation regarding electrical and electronic waste (WEEE).
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