THE SPECIALIST IN INNOVATIVE EQUIPMENT FOR INSULATION

USER MANUAL

BV Cert. 20013733
Machines d'isolation

BV Cert. 21959263
Service après-vente

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SUMMARY

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PRECAUTIONARY

PLEASE READ THIS DOCUMENT UPON RECEIPT OF YOUR MACHINE BEFORE PUTTING IT INTO SERVICE.

THIS IS ESSENTIAL BEFORE IT IS PUT INTO SERVICE.

YOUR MACHINE HAS UNDERGONE NUMEROUS OPERATIONAL TESTS IN OUR WORKSHOPS, AND ACCORDING TO INTENSIVE STANDARDS. IT IS EASY TO OPERATE AND ITS PERFORMANCE IS HIGH.

DEPENDING ON THE PRODUCTS USED, THE MECHANICAL VARIATOR ADJUSTMENT ALLOWS FLOW RATES OF UP TO 30 KG/MIN.

THE MATERIAL IS STANDARDIZED [CE] IN ACCORDANCE WITH EUROPEAN DIRECTIVE 2006/42/EC.

NEVER TOUCH ROTATING PARTS WITH YOUR HANDS OR ANY OTHER PART OF YOUR BODY – NEVER STAND ON THE MACHINE WHILE IT IS RUNNING UNDER ANY CIRCUMSTANCES.

1. GENERAL INFORMATION

About this document – Read this entire manual carefully before installing or using the machine.

The user manual is an integral part of the machine and must always be available near your device at all times. Strict compliance with these instructions is a necessary condition for the proper installation and use of the equipment.

The wording of this document and the commissioning instructions correspond to the version of your device and the safety standards in force on the date of its printing.

NOTES: We strongly recommend that this guide be read by the relevant managers and supervisors, as well as maintenance personnel, so that they can assist your employees who use the equipment every day. Be sure to follow all instructions mentioned in this manual..

2. SECURITY

This manual contains essential instructions that must be followed during use. It is therefore essential that the installer and operator of the equipment read them before proceeding with commissioning.
The instructions to be followed are not only those of general safety in this chapter, but also those of specific safety which appear in the following chapters, accompanied by a danger symbol.

2.1 SYMBOLS AND SIGNALS

 General hazard symbol

 Instructions relating to electrical risks

HAZARD != the user is subjected to an extremely dangerous situation which involves (serious) bodily harm when the indication is not followed.

ATTENTION != there is a risk of damaging organs in the system (example: polyurethanes).

"Caution" indicates an instruction which, if not observed, may cause damage to the equipment and its operation.

NOTICED= useful note on handling the product. It points out any potential difficulties.

2.2 STAFF QUALIFICATIONS

It is important to ensure that the personnel who will be using the equipment are qualified.

2.3 DANGERS IF INSTRUCTIONS ARE NOT FOLLOWED

Failure to comply with safety instructions may pose a danger to property and people. It may also result in the suspension of any warranty claim.

More specifically, the dangers involved may be as follows:

- Danger to people from electrical and mechanical influences
- Failure of prescribed maintenance and repair process
- Material damage

2.4 USER SAFETY INSTRUCTIONS

The instructions must be followed to prevent any risk of accidents. The user must be a qualified specialist who has read the contents of the user manual. All installation operations must only be carried out when the corresponding components are switched off.

2.5 MODIFICATION OF THE MACHINE AND USE OF NON-APPROVED SPARE PARTS

Any modification to the machine may only be carried out with prior authorization from the ISOL INTERNATIONAL® brand. The use of original spare parts and accessories authorized by the manufacturer guarantees safety.
The use of other parts releases the company from all liability.

3. UNAUTHORIZED MODES OF USE

The values indicated in the user manual or technical data sheet must not be exceeded under any circumstances, either as a maximum or a minimum. The operational safety of the delivered machine is only guaranteed if the requirements specified in this document are respected.

4. TRANSPORT AND STORAGE OF THE MACHINE

4.1 TRANSPORT

According to European directive 2006/42 of May 17, 2006, you must ensure the stabilization of the machine during transport with appropriate fixings (straps, support bars, etc.).

4.2 STORAGE

We recommend storing your machine in a dry place away from the elements.

5. GUARANTEES

ISOL INTERNATIONAL® machines are guaranteed for 24 months from the invoice date. This warranty does not include wear parts (motors, polyurethanes, casters).

CAUTION! Risk of material damage! In case of removal, improper transport and incorrect storage may cause material damage to the machine.

This carding machine is intended for blowing, insufflation and projection of glass, rock and cellulose fibers.

TECHNICAL SHEET

Its low power consumption allows it to be connected to a 230 V single-phase socket (16A).

FEATURES	MAXI 3
Dimensions (m)	L=1.29 W=0.57 H=1.35
Weight	160 kg
Engines	4 kW 230V single-phase 16A motors
Electrical intensity	16A
Pipe diameter	Ø 70 mm
Maximum pipe length	60 m
Food	215 - 240 V (50 - 60 Hz)
Air Pressure	300 millibars
Flow rate variation	By drawer on power supply and by variator
Mixer	Automatic by agitation
Sound Level	2 turbines = 87 DB
Remote controls	Transmitter: 3 functions Customizable 
Flocking flow rate	Up to 480m²/day In thickness 100mm

COMMISSIONING THE MACHINE

VERY IMPORTANT

DO NOT ADD AN EXTENSION CORD TO THE MACHINE'S POWER SUPPLY.

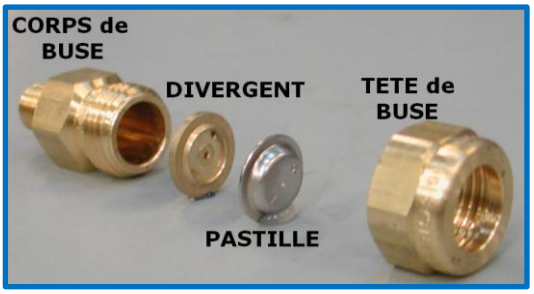
IF THE MACHINE IS CONNECTED TO A GENERATOR (7.5 KVA), CONNECT THE GROUND STICK OF THE GENERATOR OR THE MACHINE. OTHERWISE, ISOL INTERNATIONAL® CANNOT GUARANTEE CORRECT OPERATION OF THE MACHINE.

1. OPERATING PROCEDURE

. Connect the electrical cable to the machine on the socket 230 v 16A + EARTH
. Prepare the projection tubes
. Connect the pump to the 230 Volt mains + earth
. Place the suction tubes in a barrel (200 liters minimum) which is supplied to the water network
. Connect the water tube to the pump and plug in the gun
. Connect the machine power cable to the electrical network (230 volts + earth)
. Unlock the emergency stop by turning the red button to the right 1/4 turn
. Press the black Power button
. The indicator light comes on.

2. CONNECTING THE GUN

. Connect the plastic product outlet pipe to the aluminum tube
. Connect the pump's water outlet hose to the 1/4" valve.
. The gun is an essential element for using the machine
. It must always be in perfect condition for projection
. The nozzles must be tightly tightened
. The absence of leaks will ensure projection comfort



3. STARTING THE PUMP

3.1 USING THE PUMP

. Normal use of this pump involves a water tank in which the two connected pipes, as well as the strainer, must be submerged to the bottom.
. Ensure that the water level is always above half, either visually or by an automatic system (level float).
. Ensure that the suction pipe joints are properly sealed to prevent air from entering and check that the suction filter is still in place.
. From time to time, check the pressure in the air bell.
. This should be 1/10 of the working pressure.

3.2 STARTING THE PUMP

- Turn the control valve to the OFF position.
- Run the pump for 2 minutes in this position.
- Turn the valve control to the ON position to obtain the optimum water pressure at the gun.
- Pressure adjustment is done by turning the pressure valve dial clockwise to increase pressure and vice versa to decrease it.

3.3PUMP STOP

- Turn the control valve to the OFF position.
- Disconnect the pump from the machine's electrical panel.
- Clean the assembly if necessary.
- In all cases, store the pump in a room with a temperature of at least 5°.
- If using glue, rinse the running pump thoroughly with clean water until the discharge water from the pressure outlet and return outlet becomes clean.
- All equipment, suction and discharge pump and pipes, as well as pressure and gun pipes, must be cleaned under the same conditions every day.

MACHINE FEATURES

1. LOADING

Open the bag lengthwise as shown below. Position the bag on the machine's loading hatch, with the bag opening facing the machine. Push the assembly into the machine, holding the plastic bag. If necessary, break up the fiber blocks by hand.(Do not overload, risk of damage to the motor-variator).Then close the safety cover.

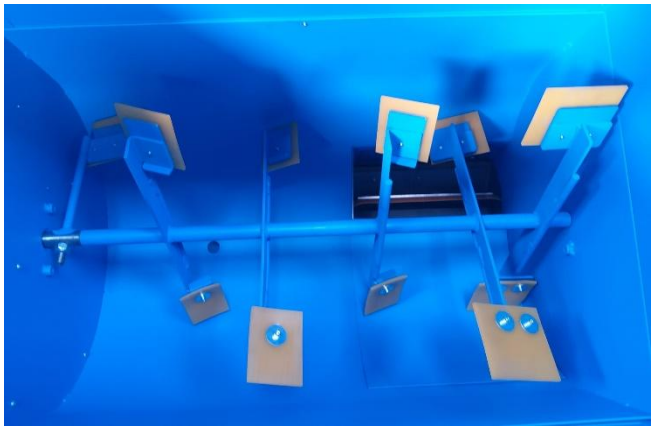
Proceed with flocking.

To stop the engine in an emergency, there is a stop button on the side of the machine.

DO NOT LIFT MORE THAN 20 KGS OF PRODUCT.

2. MIXER

Mixer with polyurethane flap for mixing fibers.
It is used to supply the lock.



3. LOCK

⇨ **6 polyurethane blades**

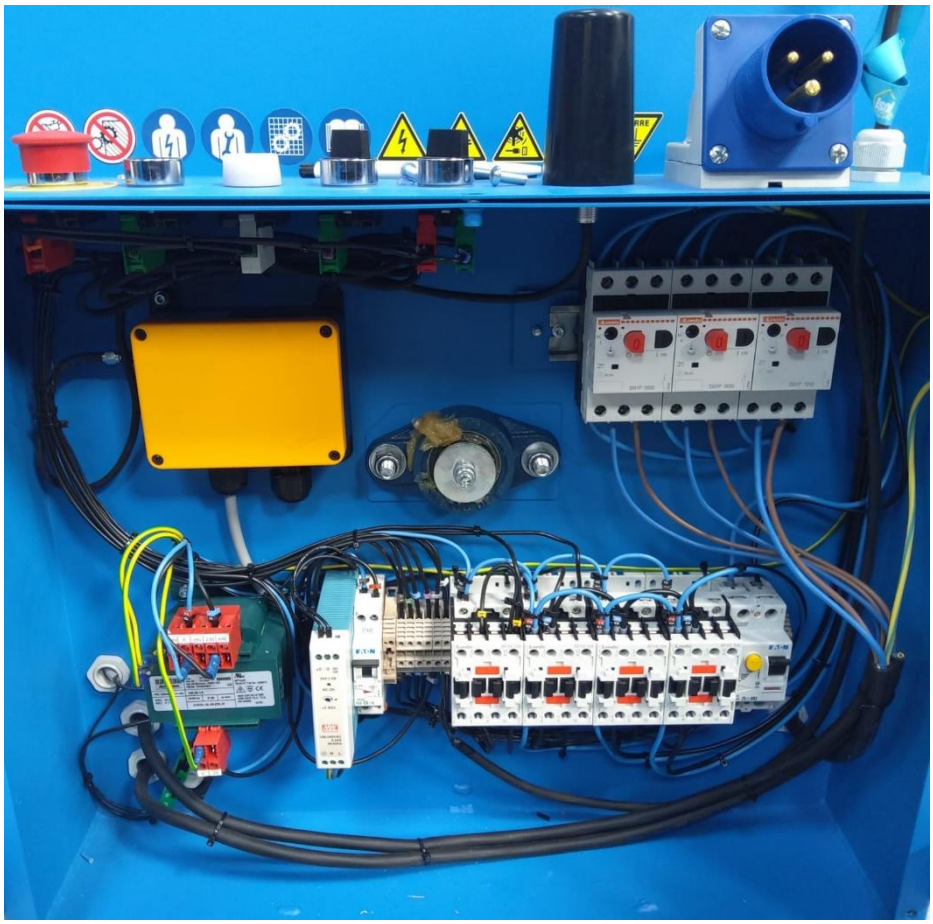
They ensure the seal between the fiber and the air distribution

4. DISPENSING DRAWER

It ensures the particle size and flow rate of fibers in the lock

5. ELECTRICAL SUBSTATION

The electrical panel is located under the rear of the machine, behind the protective casing.



STEPS OF USE

. Connect the Ø 70 tube to the machine outlet and place the 4 or 6 nozzle gun at the end of the tube.

. Connect the water tube to the gun and the pump.

. Connect the pump suction and return tubes to a drum full of water.

. Adjust the water flow rate according to that of the product (see the product manufacturer's instructions).

. Put the fiber in the machine.

. Adjust the hatch opening and the speed of the variator according to the fiber flow rate and the desired particle size.

. Switch on the machine (230 volts) using the electrical outlet

. The machine will operate via radio or wired remote control

. When the machine is running and it is necessary to replenish the fiber, press the pedal with your foot to open the closing hood so that the machine does not stop and the projection or blowing can continue.

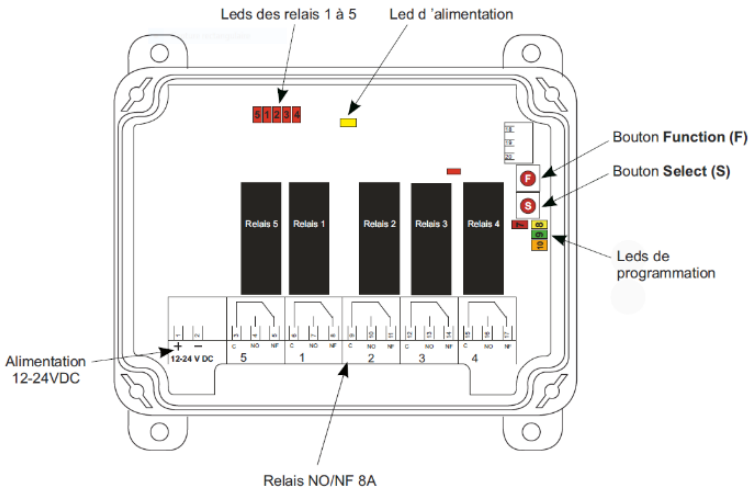
Do not put your hands in the machine even when it is stopped in a live machine

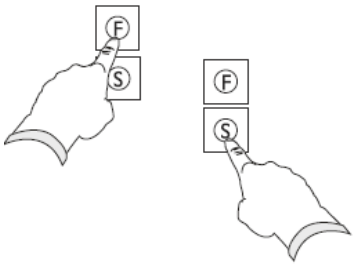
In normal spraying operation with 40 meters of tube, the pressure gauge should indicate a constant pressure between 80 and 110 millibars, if the needle oscillates a sealing flap is worn or broken.

PAIRING THE REMOTE CONTROL

ERASE ALL TRANSMITTERS IN THE RECEIVER

1. In the receiver, press the Function button (F). The red LED 7 lights up.
2. Press and hold the Select (S) button. All relay LEDs will light up.
3. Hold down until the relay LEDs turn off.



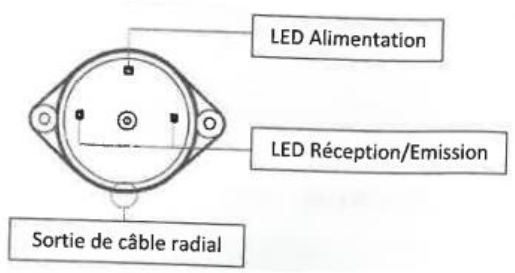


REGISTER THE TRANSMITTER IN THE RECEIVER

1. In the receiver press the Function button (F). LED 7 lights up.
2. Then press the Select (S) button. All LEDs light up.
3. On the transmitter, press and hold buttons 1 and 2 until the relay LEDs flash 3 times.

RADIO REPEATER PAIRING

DIAGNOSTIC LIGHT



The power LED is solid green when the product is powered on.

The 2 Reception/Transmission LEDs flash with each Reception/Transmission of a radio frame.

PAIRING PROCEDURE

The repeater must be powered off.

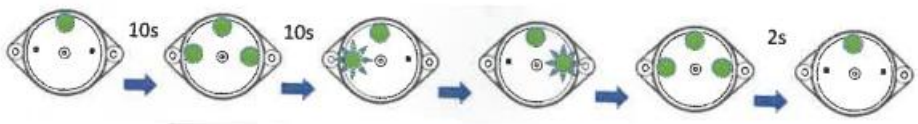
Check that the switch on the back of the product is in the [I] position.

If you have an ON/OFF function, turn on the remote control.

Press the pairing buttons on the product. Typically, these are buttons 1 and 2 or 1 and 3 if you have an ON/OFF function on button 2.
If you have a special program, consult the program sheet to identify the product pairing buttons.

Hold down throughout the repeater startup phase below.

Power on the repeater.



Release the pairing buttons.

HOW TO PROJECT?

- The position of the gun must always be at 45° to the surface to be protected.
- The distance from the gun to the support to be protected is always greater than or equal to 30 cm.
- Always open the gun fully.
- Wet the surface to be projected (to wash it and ensure good projection)
- Put in position**ON**the remote control so that the air comes out of the gun and then click into position**FIBER**to send the fiber.
- Choose your airflow with AIR+/AIR-
- Apply a few square centimeters to the desired thickness.
- Adjust the air flow with the AIR+/AIR- button on the remote control, and/or using the decompression valve and that of the fiber using the motor variator and the drawer.
- Check the proportion of water to fiber: by squeezing a handful of the applied product very tightly, it must be damp and at most a drop of water bead from the hand to obtain a homogeneous mixture.
- If the product is too dry, increase the water pressure by turning the dial**2**clockwise (and vice versa if the product is too wet).
- Once the fiber has been sprayed, it is always recommended to roll it with a new, short-haired painter's roller, or to trowel it using a traditional mason's trowel.

INTERVIEW

- After each use, run the pump for a few minutes with clean water to prevent deposits from forming, which are always detrimental to its proper functioning.
- To allow for complete drainage, operate the pump with the suction hose out of the water.
- The special material used for the valves and diaphragms, as well as the lubrication (oil bath) of all moving parts, limits maintenance operations to an occasional check of the oil level. Top up if necessary.

1. CHAIN TENSION

Tension the front chain with the appropriate wrenches (6 BTR and 13 flat).

2. LUBRICATION

Grease the bearings and chains with a grease gun.

3. GUN

Keep your gun very clean and in perfect condition.
The gun is as important as the machine and requires the same attention.

4. CLEANING THE AIR FILTER

1.1. AS OFTEN AS POSSIBLE (at least every week)

Using a vacuum cleaner, vacuum the fiber dust deposit directly onto the filter located at the back of the machine, below the handle.

1.2. FROM TIME TO TIME (at least every month)

- Remove the two screws (1) with a 4 mm Allen key.
- Remove the filter mesh protection (2).
- Remove the foam from the filter (3).
- Clean the filter with a vacuum cleaner or compressed air.
- Clean the interior with the vacuum cleaner.
- Reposition the filter foam (3).
- Replace the filter mesh protection (2).
- Replace the two screws (1) and tighten with the 4 mm Allen key.

5. REPLACEMENT OF TURBINE ENGINES

- Position the seal as shown in the photo and slide it in.
- Place the assembly in the flange and position the assembly on the opening of the Iso Mini.
- Secure the assembly to the chassis by tightening the 2 screws.

WEAR PARTS

1) REPLACEMENT OF SEALING FLAP (polyurethanes)

The 6 polyurethanes are wear parts and must be changed if air rises in the machine and the fiber propulsion is jerky.

Steps to test the watertightness of your machine:

1. Empty the machine of insulation
2. Put the machine into air + fiber operation
3. Seal the product outlet

Maximum pressure: 300 mbar
Pressure in use: between 80 and 110 mbar
Oscillation of the pressure gauge needle = sealing problem

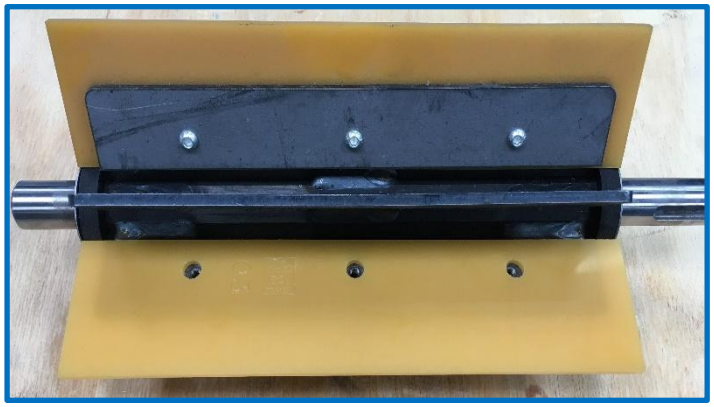
2) Disassembly:

- Remove the screws from the counterplate and remove the used polyurethanes.

Replacement of sealing flaps (polyurethanes):

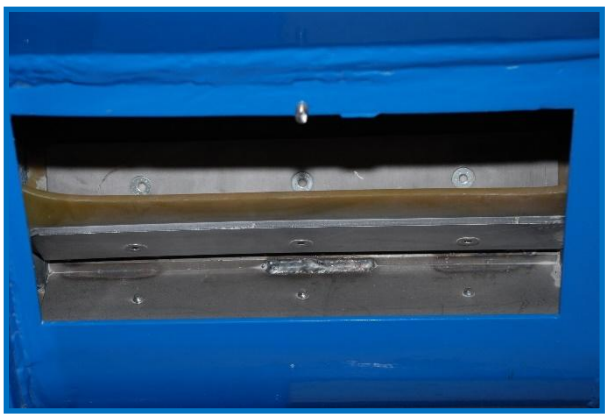
- Remove the worn sealing flaps with a 4 mm Allen key
- Replace the sealing flaps with new ones (compatible exclusively with Isol International® products)

- Center the sealing flaps correctly by pressing them onto the sealing rings (photo below)
- Tighten with the same wrench

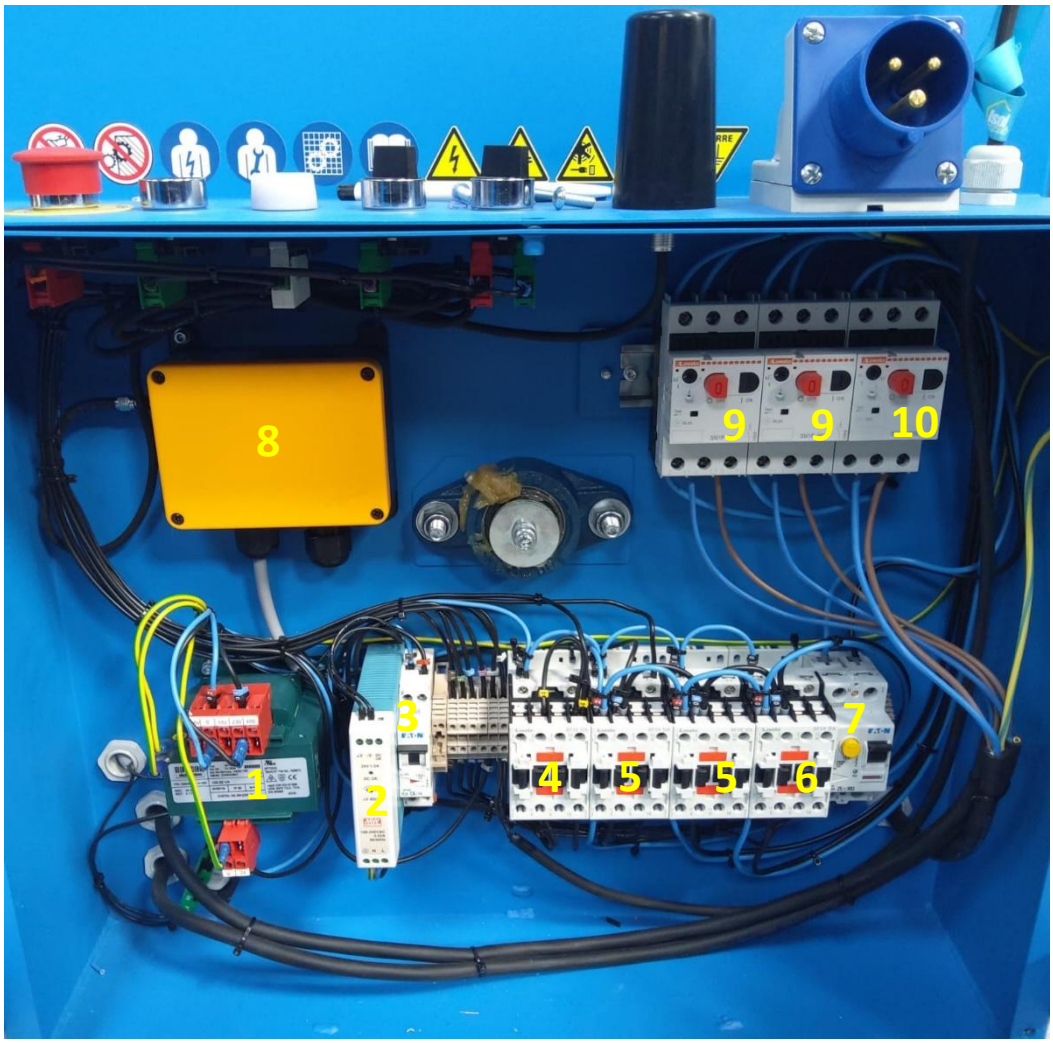


3) Reassembly*:*

- Reverse direction of disassembly
- Retighten the chains
- Replace the mill backplate



ELECTRICAL PANEL



ELECTRICAL COMPONENTS

1. 230 VAC/24 VAC transformer
2. 230 VAC/24 VDC radio transformer
3. Magnetothermal circuit breaker (control circuit)
4. Self-maintaining contactor (control circuit)
5. Air motor contactors 1 and 2 (value) 230V
6. Motor-variator motor contactor
7. Differential circuit breaker (value) 25A 30 mm
8. Radio receiver
9. Air motor circuit breaker (value) 0650
10. Motor-variator circuit breaker (value) 1000

TROUBLESHOOTING

ANOMALY	RESOLUTION
MACHINE	
The white light does not come on when the red button is turned	- Check if the machine is plugged in - Check if the differential is disarmed
The machine does not work with the remote control	- Check that the transmitter battery does not need to be replaced - Check that it is not in the off position
The machine rattles while operating	- Check that the reducer chain is sufficiently tight. - Check that the mixer transmission chain is sufficiently tight.
The machine freezes while operating	- Check if a foreign body has entered the hopper or the dispenser - Check that the load is not too heavy
The air motor is not blowing enough	- Check if the air filter of the air motors is clogged, clean it or replace it
The mixer stops	- There is too much fiber in the machine - The load is too large
The machine stops	- A motor contactor has tripped - The differential circuit breaker has tripped
PUMPS	
The pump no longer sucks water	One or more valves are blocked, check that the suction strainer is not clogged. Check and clean the seats and valves.
The pipe is hitting hard	The pump is sucking air or the air has not been evacuated, check the suction hose, run the pump with the gun valve open
The water outlet is irregular	Check if the air bell is deflated, re-inflate the air bell (4 bars)
Oil is coming out of the discharge. There is oil in the water.	- Check if one or more diaphragms are damaged. Drain the oil box, remove the cylinder heads and replace the damaged diaphragms. - Refill with 20W/30 fluidity oil

GUN	
No spraying	- Check if there is pressure in the pump and pressurize it
Nothing comes out	- Check that the valve is closed and pressurize the pump - Check if the tubes are clogged - Check if the nozzles are clogged - Check if the pump is running
The gun is leaking	- Check for leaks at the connection
Too much or not enough water	- Check that the pump is correctly adjusted

Before any intervention, we advise you to take a photo before any intervention in order to facilitate the reassembly of the equipment.

In the event of a problem, our technical department is available to resolve the anomaly with you and help you use your equipment in optimal conditions.

WORKSHOP CONTACT:
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Depending on the case, we can offer you troubleshooting via video assistance.