

Taal: Engels



Handleiding

STUCCHI
STU ST1- C
STU ST1 - M
STU ST1- P

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Mod.

STI

USE AND MAINTENANCE MANUAL

MACHINE DECLARATION OF CONFORMITY

MANUFACTURER:

STUCCHI 1950 S.r.l.s.

Registered office: Via Arcisate, 1520157 Milano (Italy)

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DECLARES THAT THE NEW MANUFACTURED MACHINE DESCRIBED BELOW:

Type:.....PORTABLE EXTRACTOR.....

Model:.....ST1.....

Serial number:.....ST1.....

Year of manufacture:2013.....

is compliant with the requirements of:

MACHINERY DIRECTIVE 2006/42/EC of 29/12/2009

Moreover, it complies with the requirements
foreseen by:

LOW VOLTAGE DIRECTIVE 2006/95/EC of 27/12/2006

ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2004/108/EC of 20/01/2005

Legal representative
Stucchi Sara

Technical manager
Andreozzi Luca

TABLE OF CONTENTS

MACHINE DECLARATION OF CONFORMITY	3
1 FOREWORD	6
1.1 General instructions	6
1.2 General Safety instructions	7
1.3 Electrical safety conditions	8
2 GENERAL INFORMATION	9
2.1 Applied Standards	9
2.2 Identification data	9
2.3 Warranty	10
2.4 Definitions and symbols	10
3 PRELIMINARY INFORMATION ON THE MACHINE	12
3.1 General description	12
3.2 Technical data	15
3.3 Intended use	15
4 TRANSPORT AND INSTALLATION	16
4.1 Transport	
4.2 General instructions	16
4.3 Allowed environmental conditions	16
4.4 Installation	17
4.5 Allowed operational areas	17
4.6 Connections and checks	17
5 PREPARATION FOR USE OF THE MACHINE	18
5.1 General instructions	18
5.2 Operation description	18
5.3 Using the machine	19

6 TROUBLESHOOTING

.....	20
6.1 Troubleshooting	20
6.2 Replacing the electronic control board	21
6.3 Emptying the powder container	21
6.4 Electric motor	22

7 DECOMMISSIONING AND DISMANTLING	23
7.1 Instructions for decommissioning	23
7.2 Changes	23

1. Foreword

1.1 General instructions

Carefully read the instructions for use before using the machine.

This manual is an integral part of the machine and/or the system supplied by STUCCHI 1950 SRLS.

If this manual is not delivered with the machine and/or system or is lost, we recommend you to ask for a copy to STUCCHI 1950 SRLS, which will provide it in the shortest time possible.

This manual contains operating, ordinary/extraordinary maintenance, troubleshooting instructions and a spare parts list for the machine manufactured by STUCCHI 1950 SRLS. Should you have difficulty in understanding texts or tables, or should drawings/diagrams not result too clear, please contact STUCCHI 1950 SRLS for any explanation from operators, maintenance technicians or the person responsible for writing the manual.

STUCCHI 1950 SRLS is at complete disposal of users, sales managers or other entity interested in a possible collaboration to improve the comprehension of the entire manual.

STUCCHI 1950 SRLS cannot be held liable for inconveniences, breakages or accidents due to failure to observe or apply the instructions indicated in this manual.

The machine is supplied wired and factory-tested.

Make sure there are no damaged parts in the machine before performing any kind of work.

Use personal protective equipment to prevent hearing damage if the noise level exceeds 85 dBA.

The machine should operate in non explosive and non flammable areas. The user is responsible for checking these conditions are met.

This manual is an integral part of the machine and must be read carefully before performing any operation.

Pay attention when working to prevent damaging persons or property.

The safety regulations described in this manual integrate but do not replace the regulations in force.

The print date and revision number are indicated in the manual.

We recommend you to store this manual and its annexes in an adequate space and in an adequate manner to ensure it remains intact and available for personnel in charge of installation, maintenance or repairs.

Please contact exclusively authorised assistance centres for any type of machine repair.

This manual should be stored for the whole working life of the machine.

Information contained in this manual is subject to change without prior notice.

1.2 General safety instructions

Any tampering with the machine by the client relieves STUCCHI 1950 SRLS of any liability and the user will be considered the sole responsible towards the competent bodies for accident prevention. The in-depth familiarity of operators with the machine and its operation can ensure accident prevention.

To ensure safety conditions are observed, follow the instructions below:

- ¾ Periodically check all accident prevention safety devices and make sure that they are fitted and in good working order.
- ¾ The operating area should be clean and tidy at all times.
- ¾ Before starting to work, the operator should know exactly where the start and stop buttons of the machine are located.
- ¾ Electrical connection must be performed by qualified and authorised personnel.
- ¾ Before starting to work, make sure that there are no hazards for persons or property.
- ¾ Do not tamper with safety devices.
- ¾ Do not deactivate, remove or modify safety guards.
- ¾ Do not alter the machine for any reason.
- ¾ Do not use the machine in the presence of and/or near children.
- ¾ Do not allow unauthorised people to use the machine.
- ¾ The operator must wear clothing suitable for the work environment and type of work to carry out.
- ¾ The operator must not wear chains, bracelets, watches or any other kind of item that could get caught.

- ¾ Use safety goggles while working.
- ¾ Do not inhale smoke from lit cigarettes or matches.
- ¾ Do not use the machine to extract flammable fluids.
- ¾ Keep openings free from dust, rags, hair or any item that could reduce the extraction performance.
- ¾ Keep your balance and avoid unsafe positions during processing.
- ¾ Always lock the part to process using appropriate pliers or clamps.

The use of accessories and/or tools non conforming to a proper use of the machine or, in any case, for purposes other than those recommended in this manual can lead to an injury risk. Always use the appropriate tool for the processing to carry out.

Always keep the tool in good working order.

1.3 Electrical safety conditions

During the use of the machine follow ALWAYS the following basic precautions:

- ¾ Carefully read the instructions before using the machine
- ¾ Pay attention in order to reduce risks of electrocution or personal injuries.
- ¾ Do not extract liquids.
- ¾ Do not use the machine if the electrical socket is damaged.
- ¾ Always unplug the power plug before performing maintenance operations.
- ¾ Unplug the machine when it is not in use.
- ¾ Switch off the main switch before unplugging the power cord.
- ¾ Do not tamper with the electrical system.
- ¾ Ensure that the mains voltage matches that of the machine.
- ¾ Disconnect the power supply and unplug the power cord before any maintenance and/or cleaning operation.

2. General information

2.1 Applied standards

The machine has been designed and manufactured in compliance with Machinery Directive 89/392/EC, as amended, and with the local legislation that implements it.
The parts/clauses of harmonized standards observed to design and manufacture the machine are listed below.

EN 292-1	Safety of machinery - Basic concepts; Part 1.
EN 292-2	Safety of machinery - Basic concepts; Part 2.
EN 60204-1	Safety of machinery. Electrical equipment of machines.
89/392/EEC	Machinery Directive.

2.2 Identification data

Manufacturer **STUCCHI 1950 S.r.l.s.**

Address: **Via Arcisate, 15**
20157 - MILANO - ITALY Tel.
++ 39 02 36538904 Fax ++39 02 33301084

E-mail: **info@stucchi.net**
Machine: **ROUGHING, FINISHING, POLISHING AND EXTRACTION SYSTEM**

Model: **ST1**.....

Serial number: **ST1**.....

Year of manufacture:

2.3 Warranty

On delivery, verify that the machine and any individual accessories are not damaged because of transport or handling operations.

Any complaint must be sent in writing to STUCCHI 1950 SRLS within 8 (eight) days from the reception date, with a copy of the delivery documents countersigned by the carrier or handling operator.

To learn more about the warranty conditions, read the warranty certificate attached.

2.4 Definitions and symbols

In this manual you can find definitions used in the industrial sector for which this machine is intended. For better understanding you can refer to the list of definitions below. Failure to understand their meaning could confuse those who might deal with the machine directly or indirectly. **OPERATOR:** Person(s) in charge of installing, using, adjusting, cleaning, performing maintenance or repairing the machine

QUALIFIED PERSONNEL: Person(s) familiar with the machine and its operation, maintenance and repair. They must be also aware of their tasks and regulations to follow.

Terms like DANGER, CAUTION, WARNING are used in the manual to indicate the seriousness of consequences that might arise if the instructions are not followed.

! Danger

This symbol is used to indicate potentially dangerous situations that, if not avoided, MAY RESULT IN DEATH OR SERIOUS INJURIES TO THE OPERATOR(S) OR OTHER PEOPLE.

! Caution

This symbol is used in the manual to indicate potentially dangerous situations that, if not avoided, MAY CAUSE LIGHT INJURIES OR MATERIAL DAMAGES TO THE OPERATOR(S) OR TO OTHER PEOPLE.

! Warning

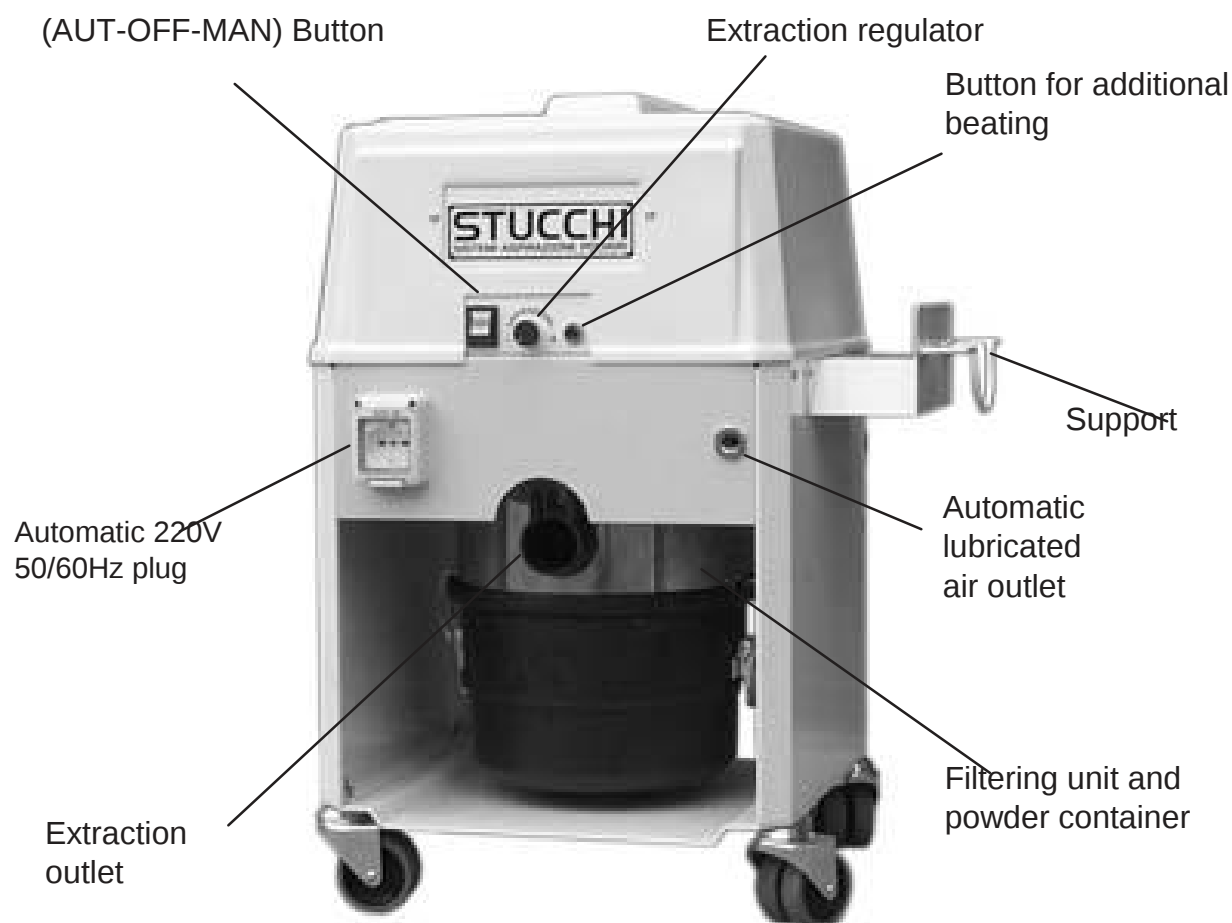
This symbol is used in the manual to indicate potentially dangerous situations that, if not avoided, MAY CAUSE INJURIES TO THE OPERATOR(S) OR OTHER PEOPLE.

To draw attention to the importance of certain points of this manual that, if not observed, can cause damage to the machine, we will use the following term: **"IMPORTANT"**.

3. Preliminary information on the machine

3.1 General description

The **ST1** (Illustration for presentation purposes only) is a professional extractor that performs automatic filter cleaning.



CARRIAGE

Made of a sturdy steel structure, it supports all parts of the machine.

A series of castor wheels, appropriately sized and positioned, allow the whole system to be moved.

FILTERING UNIT

Located inside the machine structure, it filters the previously extracted air. An automatic cleaning system allows for constant and high performance extraction.

The extraction power is adjustable through a potentiometer located in front of the machine.

The machine is equipped with an air tank that allows the operation of the pneumatic filter cleaning system without requiring the machine to be connected to the air mains. It can perform filter cleaning autonomously for 8 hours without being connected to the compressed air mains.

The loading of the tank is achieved through an attachment on the back of the machine, near the pressure gauge. (ONLY MODEL ST1-C)

POWDER CONTAINER

It collects powders from the filtering unit. A quick closure system allows it to be quickly disassembled for emptying.

ELECTRONIC CONTROL BOARD

It controls and commands all machine functions.

Easy accessibility and replacement render the maintenance operations extremely simple and fast.

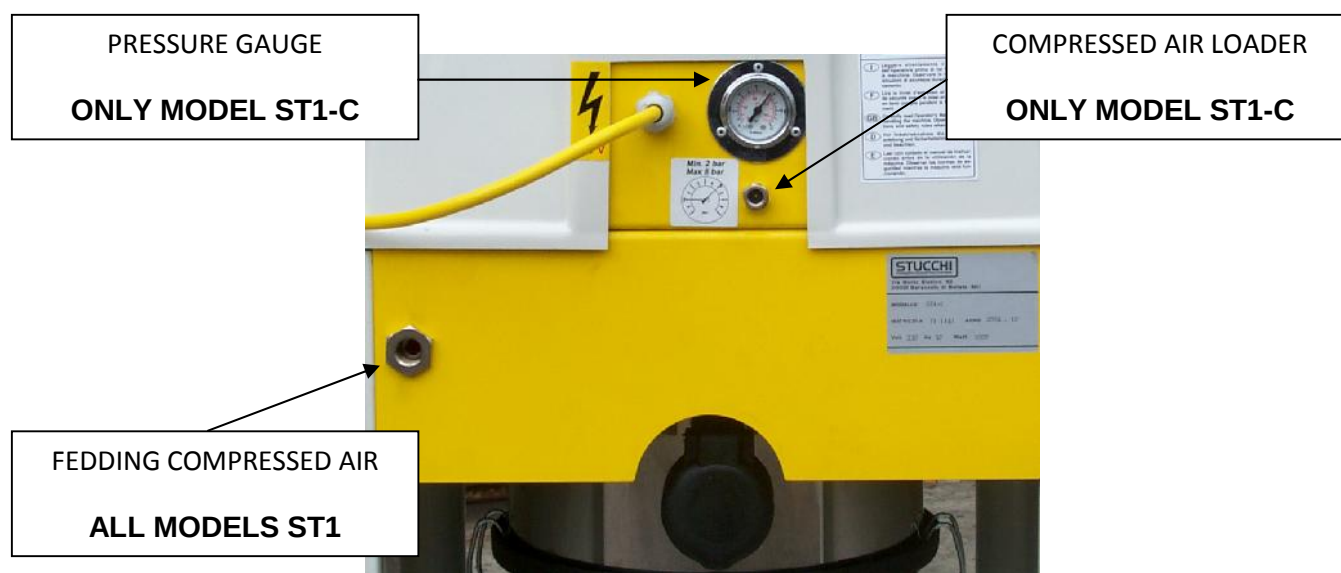


Illustration for presentation purposes only

If the machine is not connected to the air mains, because you are using electrical equipment, verify on the pressure gauge that the pressure inside the tank is always above 2 bar and never exceeds 8 bar. (ONLY MODEL ST1-C)

3.2 Technical data

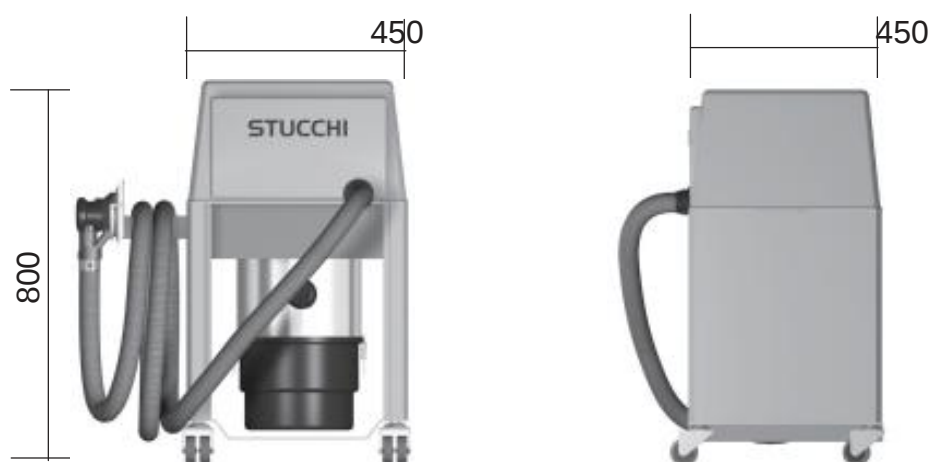


Illustration for presentation purposes only

GENERAL TECHNICAL DATA

Width (mm)	450
Length (mm)	450
Height (mm)	800
Capacity (m ³ /h)	300
Noise level (dBA)	70
Extraction volume (m ³ /h)	100
Extraction vacuum (Mbar)	210
Feed air pressure (bar)	max 8
Extraction fan with automatic activation (W)	900
Machine weight (Kg. ca.)	30

POWER SUPPLY

Power voltage (V)	220 50/60HZ
Auxiliary control voltage (V)	12
Frequency (Hz)	50/60
Extraction installed power (Watt)	900
Degree of protection (IP)	54
Fuse (A)	16
Degree of protection (IP)	54

3.3 Intended use

The “ST1” machine, dealt with in this manual, has been designed to:

- Extract air and powder particles produced by abrasive tools while working on painted or puttied surfaces.
- Filter the extracted air separating heavy parts.
- Release filtered air into the environment.
- Be activated/deactivated by means of a manual control.
- Be activated/deactivated automatically by the tool activation/deactivation.
- **Be combined with electrical tools not exceeding 1000W or pneumatic tools**
- Allow easy disposal of filtered powders.

Operators must verify the compatibility of the head assembled on the machine with the materials and/or operations to carry out on the parts to process.

Any use and operation on the machine not foreseen in this manual, must be considered incorrect and/or improper.

4. Transport and installation

4.1 Transport

Machines are packaged before shipment.

Transport must be performed using appropriate means, fastening the machine firmly.

Handling must be performed using a lift truck or pallet truck.

The machine is fitted with wheels and can be positioned manually.

If the machine needs to be stored, place it in a covered area and avoid overlapping loads that could irreparably damage the machine.

4.2 General instructions

Operating areas must be strictly respected to avoid causing danger to persons or property.

Connections must be performed by authorised and qualified personnel strictly following the instructions of the specific section.

4.3 Allowed environmental conditions

The machine is intended for use in industrial environments.

The recommended environmental conditions for proper machine operations are as follows:

Temperature: 5÷45 °C.

Relative humidity: 0.90 %.

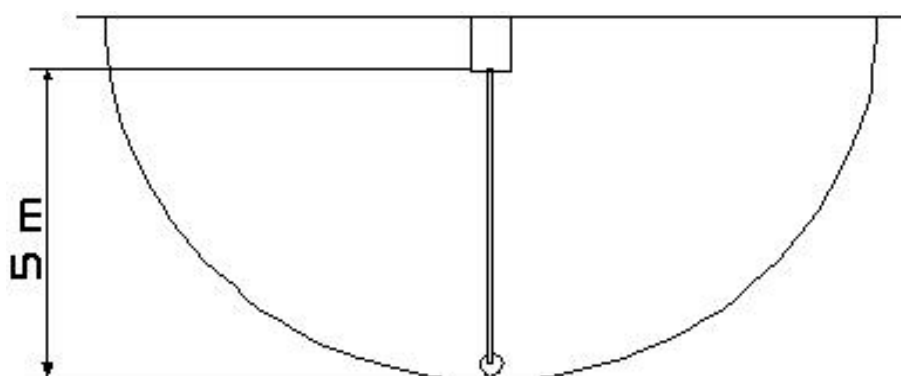
Lighting: according to the regulations in force for industrial environments.

4.4 Installation

As the machine is a wheeled system, it does not require installation.

4.5 Allowed operating areas

The work station and operating areas needed for the processing to be performed with the machine can be identified in the following diagram.



4.6 Connections and checks

Connections must be carried out by qualified and authorised personnel, who must follow the indications given in the following table and diagram.

- 1 - Connect to the mains using a power cord of the same voltage foreseen for the machine.

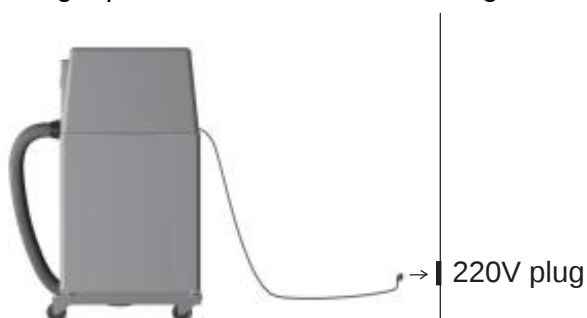


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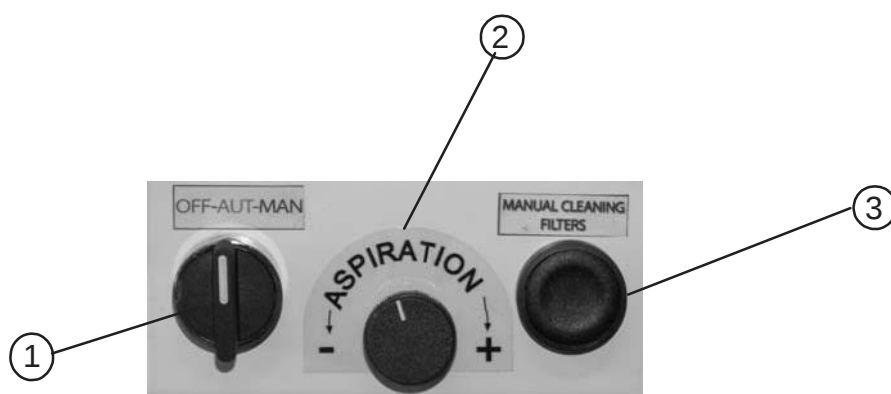
5. Preparation for use of the machine

5.1 General instructions

Before using the machine for the first time, get to know the controls following the instructions in the manual.

5.2 Operation description

All controls are located on the front part of the machine. (Illustration for presentation purposes only)



1) 3-position AUT-OFF-MAN button

OFF position - the machine is in stand-by

AUT position - the machine works in automatic mode

MAN position - the machine works in manual mode

2) Extraction adjustment

Extraction increases turning the knob clockwise, while it decreases turning it anti-clockwise.

3) Additional filter cleaning button

Further filter cleaning can be performed pressing this button.

5.3 Using the tool

The machine has been designed for the simultaneous operation of the extraction system and electrical or pneumatic tool.

To start it up insert the plug into the power socket. If working with an electrical tool, insert the tool plug into the appropriate socket located on the machine front part and turn the button to **AUT** so that extraction starts automatically when the tool is switched on. if working with pneumatic tools, connect the compressed air to the inlet on the back.

Switch off the tool to stop the machine.

ADVICE ON THE USE OF TOOLS:

- start the tool, it is better if it does not come into contact with the surface to treat.

6. Troubleshooting and maintenance

6.1 Troubleshooting

The most recurring defects and their elimination are indicated in the following table.

DEFECTS	POSSIBLE CAUSE	POSSIBLE SOLUTION
The machine does not start	Not connected to the mains	Connect the control panel terminal board to the mains
	Lack of mains voltage	Check the main panel and existing safety devices
	Mains voltage not correct	Connect correctly
Poor extraction	accumulation of powder in	empty container
	Poor cleanliness	Check the extraction route and remove any faults

6.2 Replacing the electronic control board

Please follow the procedure indicated below to replace the electronic control board:

- Remove the upper closure casing of the machine
- Remove the cover that contains the electronic control board
- Disconnect the boards' power connector
- Disconnect the faulty electronic board fastened to the upper surface of the extraction unit
- Replace the board verifying its correct position and fixing
- Connect the connector to the board
- Re-fit the cover and upper casing of the machine fixing it using the appropriate screws.

6.3 Emptying the powder container

To empty the powder container unhook the lever stops (1) that fasten the container to the filter body.

The disposal of filtration powders must occur in accordance with the local regulations in force regarding the disposal and/or recycling of industrial waste.

Before re-assembling the container under the filter body, check the seal condition. After positioning the container, lock it using the lever stops.

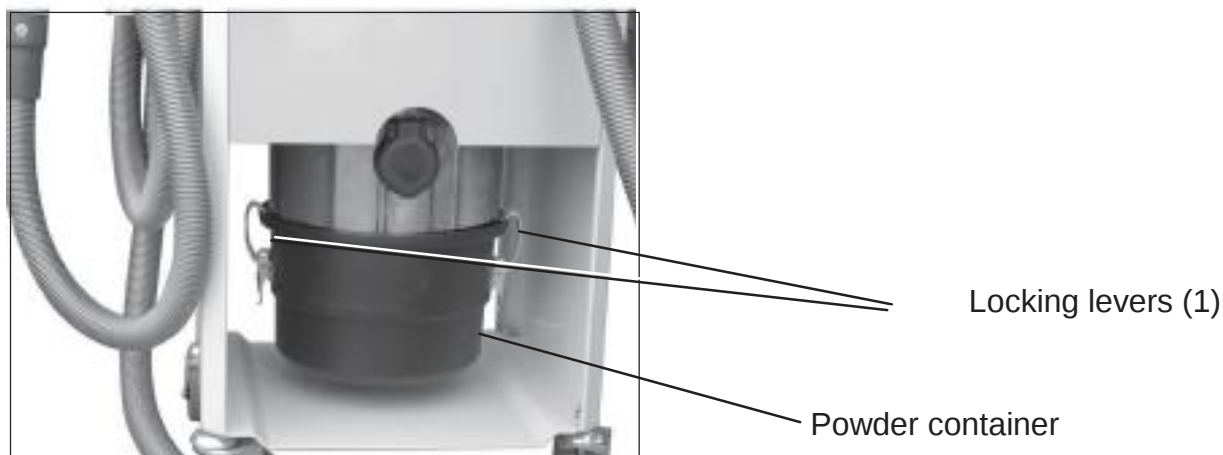


Illustration for presentation purposes only

6.4 Electric motor

Check every six months that the electric motor brushes are still in good working order. If they are not, replace them.

Follow the procedure indicated below to replace the brushes correctly: Stop machine operation

- 1)** combined action for cap extraction (the use of safety gloves is recommended)
- 2)** remove the fixing screws
- 3)** pull out the brush.

To assemble, follow the procedure above in the reverse order pushing the brushes all the way towards the core using a screwdriver. This needs to be done to lock in place the new brushes.

7. Decommissioning and dismantling

7.1 Instructions for decommissioning

At the end of the machine life cycle, the “ST1-C” can be completely dismantled and scrapped. Qualified technicians should carry out this operation using all accident-prevention measures and complying with the regulations in force on waste disposal on the basis of their composition.

7.2 Changes

As already mentioned in another part of the manual, any change made to the machine is not allowed.

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