

# OPERATION AND MAINTENANCE MANUAL



**Sandblast Cabinet**  
**Art. 0575**



ORIGINAL INSTRUCTIONS

## **PREFACE**



### **Read this manual before operating any machinery**

#### **ORIGINAL INSTRUCTIONS**

Reading this instruction manual is required before operating any of the machinery. The guarantee that the machine will function and perform properly is strictly dependent upon the application of all the instructions contained in this manual.



### **Operator Qualifications**

The workers responsible for using this machine must have all necessary information, education and receive adequate training regarding safety, including:

- a) Conditions of use for the equipment;
  - b) Foreseeable, abnormal situations;
- pursuant to art. 73 of Legislative Decree no. 81/08.

*We guarantee the Machine's conformity to the specifications and technical instructions described in the Manual on the date of issuance and listed herein; On the other hand, the machine may also be subject to important technical changes in the future, without the manual being updated.*

*Therefore, contact FERVI for information about modifications that may have been implemented.*



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# 1 INTRODUCTION

This manual is designed to provide the knowledge required for the use and maintenance of the **Sandblast Cabinet Art. 0575**, and to provide the operator assigned to the device with a sense of responsibility and knowledge of its possibilities and limitations.

As a machine is entrusted to experienced and skilled operators, so operators must have perfect knowledge of the following machines for effective and safe operation.

Selecting personnel is an important factor for efficiency and safety in the workplace, and the people considered suitable to perform a specific job must have the sufficient physical and mental capacity to allow them to understand the instructions that they are given.

## GRAPHIC FORM OF THE ALERTS RELATED TO SAFETY, OPERATION AND RISK WARNINGS

The following boxes are designed to attract the attention of the reader / user for the **proper** and **safe** use of the machine:



### Pay Attention

This emphasizes behavioural rules to avoid damaging the machine and/or the occurrence of hazardous situations.



### Residual Risks

This emphasizes the presence of hazards causing residual risks which the operator must watch for to avoid personal injury or material damage.

## 1.1 Preface

For safe and easy operation of the sandblast cabinet, this manual must be read carefully in order to acquire the necessary knowledge. In other words, the life and performance of the machine are dependent on how it is used.

Even if already familiar with the sandblast cabinet, it is necessary to follow the instructions contained herein, in addition to the general precautions to be observed while working.

- Acquire full knowledge of the machine.

Read this manual carefully to understand: operation, safety devices and all necessary precautions. All this is to allow safe use of the machine.

- Wear appropriate clothing for the job.

The operator must wear appropriate clothing to prevent the occurrence of unpleasant accidents.

- Take proper care of the machine.



### Using the Machine

The machine must only be used by qualified personnel trained to use the machine by authorized personnel.



Figure 1 - Overview sandblast cabinet



## 2 GENERAL SAFETY WARNINGS

### 2.1 General safety regulations



#### **Risks associated with using the machine**

DO NOT underestimate the risks associated with using the machine and concentrate on the work in progress.



#### **Risks associated with using the machine**

Despite the implementation of all the safety devices for safe use of the machine, it is necessary to take note of all the requirements for the prevention of accidents reported in various parts of this manual.



#### **Risks associated with using the machine**

Every person who is responsible for the use and maintenance of the machine should have first read the instruction manual, particularly the chapter on safety information.

It is recommended that the plant safety manager get written confirmation of the above.



#### **Operator Protection**

Before starting any type of work on the machine, the operator must wear appropriate personal protective equipment (PPE) such as goggles, gloves and safety shoes.



#### **Operator Qualifications**

The workers responsible for using this machine must have all necessary information, education and receive adequate training regarding safety, including:

- a. conditions of use for the equipment;
- b. foreseeable, abnormal situations;
- c. pursuant to art. 73 of Legislative Decree no. 81/08.

1. Read this manual carefully, and then work safely.
2. Always check the efficiency and integrity of the machine.
3. Do not use the machine in enclosed or poorly ventilated places and in the presence of flammable and/or explosive atmospheres. Do not use the machine in damp and/or wet locations, or those exposed to rain.
4. Keep the workplace tidy and free from obstruction; disorder causes accidents.
5. Make sure that the work environment is forbidden to children, non-employees and animals.
6. Do not perform tasks on the machine other than those for which it was designed. Only use the machine in the manner in which it was intended, as described in this instruction manual.
7. Work without disturbances.
8. Work areas must be well lit.
9. Make sure the protective gloves in the sandblaster are in good condition.

10. Wear appropriate clothing.
11. Replace worn and/or damaged parts, check that the repairs and protections work properly before operating. If necessary, have the machine checked by the service support personnel. Use only original spare parts.
12. It is recommended that users of this publication, for maintenance and repair, have a basic knowledge of the mechanical principles and procedures inherent in repair technique.
13. **Management responsible for safety is to make sure that the staff responsible for using the machine has read and understood this manual in its entirety.**
14. **The company safety manager is responsible for monitoring the company's risk status according to Legislative Decree no. 81/08 and subsequent modifications and amendments.**

## 2.2 Safety regulations for the electrical system

The sandblasters are equipped with an electrical system for powering the lamps, located inside the sandblasting cabinets.



### Modifications to the electrical system

- Do not modify the electrical system in any way.
- Work carried out in the electrical system of the machine must be carried out only by authorized personnel.

1. The supply voltage of the lamps must correspond to that stated on the plate and in the technical specifications (230 V / 50 Hz). **Never use any other type of power supply.**
2. The use of a life-saving device on the electric power supply for a nominal trip range of 10 to 30 mA is recommended. For more detailed information, contact a trusted electrician.
3. The current transformer and the power cord should be checked regularly taking care that they do not come into contact with hot objects, surfaces that are wet, oiled and/or have sharp edges.
4. Do not use the power cord to lift the machine or remove the transformer plug from the socket.

## 2.3 Technical Support

For any problems or concerns, please contact, without hesitation, the Customer Service Department of the dealer who sold the product to you, who has competent and specialised staff, specific equipment and spare parts.

## 2.4 Other Provisions

### 2.4.1 TAMPERING WITH SAFETY DEVICES IS FORBIDDEN.

Check the presence and integrity of protections and the proper functioning of safety devices before starting operation.

**If any defect is encountered do not use the Sandblast Cabinet!!**

**It is strictly forbidden to modify or remove guards, safety devices, labels and caution signs.**





### 3 TECHNICAL SPECIFICATIONS

	Model	Art. 0575
Plate data	Weight (kg)	46
	Lamp voltage (V)	230
	Lamp power (W)	6
	Frequency (Hz)	50
	Operating pressure	0.65 ÷ 0.75 MPa
Technical data	Accessories	Sandblast gun
	Ø gun nozzle (mm)	4 – 5 – 6 – 7
	Hose length (m)	1.5
	Overall dimensions (mm)	890 x 560 x 1385
	Internal usable dimensions (mm)	850 x 480 x 340/540
Testing	Acoustic emission (dB(A))	< 70
	Vibration level transmitted through the hand-arm system (m/s <sup>2</sup> )	< 2.5

## 4 DESCRIPTION OF THE MACHINE

The sandblasting cabinet has been built to smooth and clean metal surfaces, by means of a pressurised stream of dried abrasive particles, such as glass granules or abrasive stone granules.



### **Fall of Abrasive Particles**

If the abrasive particles (micro beads) fall onto the floor, clean immediately and collect them, to avoid possible falls.

The processing may result in different degrees of finishing, varying from coarse to fine depending on the particle size of the abrasive particles and the type of work pieces.

The processing takes place within a closed cabinet. It is possible to check the work carried out through the transparent screen located on top of the machine.

With this model of sandblasting cabinet the door for introducing the piece is positioned on the side.

The Sandblasting Cabinet has been designed and built to be used inside buildings, and should not be exposed to the weather.

The Sandblasting Cabinet is equipped with an electrical circuit for powering the lamps, located inside the cabinet.

Do not use the machine in areas with a risk of explosion !



### **Parts under pressure**

Before using the Sandblasting Cabinet, verify the status of the gun and the hoses under pressure and the absence of losses in the pneumatic circuit.



## 4.1 Description of the Main Parts



Figure 2 - Main parts of the sandblasting cabinet.

**1** Transparent PVC screen

**2** Side door

**3** Gloves

**4** Sandblast gun

**5** Air hose connection

**6** Sand unloading hopper

**7** Sand unloading opening

**8** Side door lock

## 4.2 Identification and Warning Plates

The following identification plate is attached to the sandblasting cabinet (Figure 3):

Fabbricante	FerviS.r.l. Via del commercio 81 41058 Vignola MO	Pressione d'esercizio	6,5 – 7,5 bar
Marca		Potenza installata	1200 W
Articolo	0687	Tensione	230 V
Lotto n°		Frequenza	50 Hz
Anno	2012	Massa	147 kg

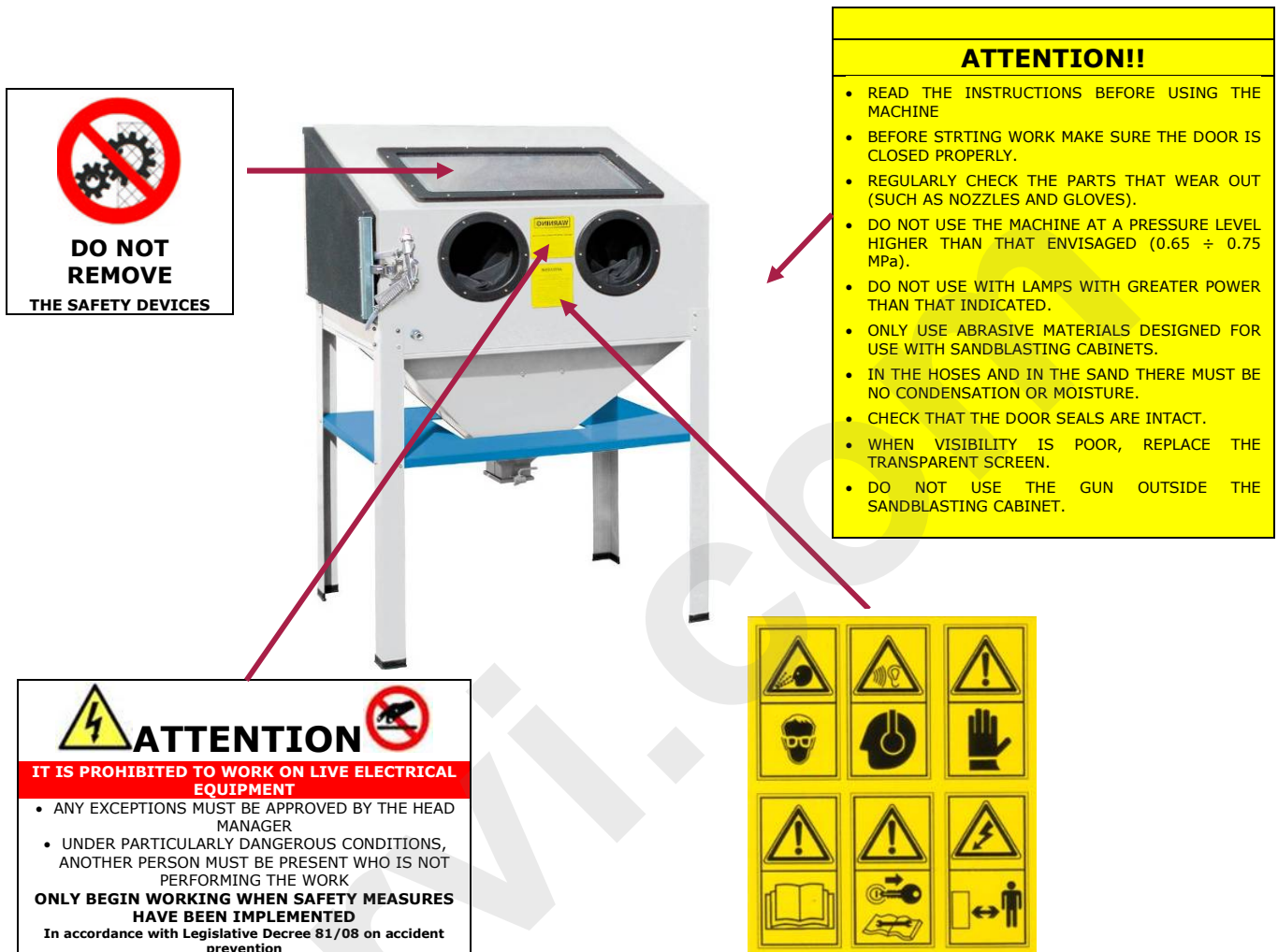
  
 Made in PRC  


Figure 3 – Identification Plate.



### 4.3 Pictograms

The machine has the following warning, attention, and prohibition pictograms (figure 3).



## Description

# PLATE IN ITALIAN




## ATTENZIONE

**È VIETATO ESEGUIRE LAVORI SU APPARECCHIATURE ELETTRICHE SOTTO TENSIONE**

- EVENTUALI DEROGHE DEVONO ESSERE AUTORIZZATE DAL CAPO RESPONSABILE
- IN CONDIZIONI DI PARTICOLARE PERICOLO DEVE ESSERE PRESENTE UN'ALTRA PERSONA OLTRE A CHI ESEGUE IL LAVORO

**INIZIARE I LAVORI SOLO AD AVVENUTA ATTAZIONE DELLE MISURE DI SICUREZZA**  
In ottemperanza al Dgs.81/08 relativo alla prevenzioni infortuni

# PLATE IN ENGLISH




## ATTENTION

**IT IS PROHIBITED TO WORK ON LIVE ELECTRICAL EQUIPMENT**

- ANY EXCEPTIONS MUST BE APPROVED BY THE HEAD MANAGER
- UNDER PARTICULARLY DANGEROUS CONDITIONS, ANOTHER PERSON MUST BE PRESENT WHO IS NOT PERFORMING THE WORK

**ONLY BEGIN WORKING WHEN SAFETY MEASURES HAVE BEEN IMPLEMENTED**  
In accordance with Legislative Decree 81/08 on accident prevention

## ATTENZIONE!!

- LEGGERE LE ISTRUZIONI PRIMA DI UTILIZZARE LA MACCHINA
- PRIMA DI INIZIARE A LAVORARE ASSICURARSI CHE IL PORTELLO SIA CHIUSO CORRETTAMENTE.
- CONTROLLARE SPESSO LE PARTI CHE SI USURANO (COME UGELLI E GUANTI).
- NON UTILIZZARE LA MACCHINA AD UNA PRESSIONE SUPERIORE A QUELLA PREVISTA (0,65 ÷ 0,75 MPa).
- NON UTILIZZARE LAMPADE CON POTENZA SUPERIORE A QUELLA INDICATA SULLA STESSA.
- USARE SOLAMENTE MATERIALI ABRASIVI STUDIATI PER L'UTILIZZO TRAMITE SABBIAIRICI.
- NEI TUBI DELLA SABBIA NON DEVE ESSERE PRESENTE CONSENSA O UMIDITÀ.
- CONTROLLARE CHE LE FUARNIZIONI DELLO SPORTELLINO SIANO INTEGRE.
- QUANDO LA VISIONE NON È OTTIMALE, SOSTITUIRE LA PLASTICA TRASPARENTE.
- NON UTILIZZARE LA PISTOLA AL DI FUORI DELLA CABINA DI SABBIAIATURA.

## ATTENTION!!

- READ THE INSTRUCTIONS BEFORE USING THE MACHINE
- BEFORE STRTING WORK MAKE SURE THE DOOR IS CLOSED PROPERLY.
- REGULARLY CHECK THE PARTS THAT WEAR OUT (SUCH AS NOZZLES AND GLOVES).
- DO NOT USE THE MACHINE AT A PRESSURE LEVEL HIGHER THAN THAT ENVISAGED (0.65 ÷ 0.75 MPa).
- DO NOT USE WITH LAMPS WITH GREATER POWER THAN THAT INDICATED.
- ONLY USE ABRASIVE MATERIALS DESIGNED FOR USE WITH SANDBLASTING CABINETS.
- IN THE HOSES AND IN THE SAND THERE MUST BE NO CONDENSATION OR MOISTURE.
- CHECK THAT THE DOOR SEALS ARE INTACT.
- WHEN VISIBILITY IS POOR, REPLACE THE TRANSPARENT SCREEN.
- DO NOT USE THE GUN OUTSIDE THE SANDBLASTING CABINET.



**NON RIMUOVERE I DISPOSITIVI DI SICUREZZA**



**DO NOT REMOVE THE SAFETY DEVICES**



## 5 INSTALLATION OF THE MACHINE

### 5.1 General Standards

Place the machine on a floor that is level, stable and sturdy, after ensuring the proper levels of cleanliness.



#### Loss of Stability

Place the Sandblasting Cabinet on a supporting surface which has the following characteristics:

- is clean;
- is solid and strong, to avoid it falling over;
- is level (not tilted).



#### Cleaning the support surface

Before positioning the sandblasting cabinet, clean the support surface from any dirt and objects present.



#### Installing the Machine

Do not install the Sandblasting Cabinet outdoors to prevent damage, in particular to the lamp and to the other electrical parts.

The sandblasting cabinet should be placed near an electrical socket. Possibly away from walls, which could make it difficult for the exchange of air through the opening in the sandblasting cabinet.

Do not put more than 5 kg of abrasives inside the sandblasting cabinet. An excessive amount of abrasive can cause poor visibility inside the cabinet, thus compromising the final processing results.



#### Abrasive

Do not put more than 5 kg of abrasives inside the cabinet.

## 5.2 Connection to the compressed air system

In order to perform the sandblasting of the pieces it is necessary to connect the machine to a compressor, or a central compressed air system for the plant, verifying that a constant pressure of approx. 5.5 bar can be provided.



Figure 5 - Compressed air connector.

The quick coupling for connection of the compressed air hose is positioned on the side at the front of the sandblasting cabinet, as shown in **Figure 5**.





### 5.3 Connecting the sandblast gun

To connect the sandblast gun to the sandblasting cabinet, first attach the metal end part (ref. 4 in [Figure 6](#)) of the abrasive suction pipe (ref. 3) to the bottom of the cabinet, using the corresponding joints. Then, connect the compressed air hose of the gun (ref. 1) to the relative connector (ref. 2), inside the sandblasting cabinet. Attach the compressed air hose to the connector by tightening the relative "screw" clip.



Figure 6 - Sandblast gun connection.



#### **Pressure**

Make sure that all the connections between the various parts under pressure on the sandblasting cabinet are secure and properly tightened.

Check the condition of the parts under pressure of the sandblasting cabinet (hoses, gun, etc.).



#### **Pressure**

To achieve the best adjustments to the compressed air pressure it is a good idea to insert a pressure regulator.

## 6 LAMP SWITCHES

In order to illuminate the interior of the sandblasting cabinet, and better follow the processing, proceed as follows:

1. connect the plug on the transformer cable into the socket at the rear of the box mounted on the left side of the machine (arrow in **Figure 7**).
2. connect the power cord of the transformer in a suitable mains socket (230 V, 50 Hz).
3. press the lamp switch on the front of the box mounted on the left side of the machine (**Figure 7**), putting it in position "I".



Figure 7 - Close-up of switch and socket plug.

## 7 OPERATION

### 7.1 Instructions for Use

Before starting work is good to perform a control of the equipment, and in particular:

- check that all the hoses (air and abrasive suction hoses) are properly connected;
- check that there are no leakages in the air circuit, and all the joints and connections, etc.;
- establish that the pressure is adjusted to the minimum (5 bar approx.);
- make sure the door is properly closed.

### 7.2 How to use the sandblasting cabinet

To carry out proper sandblasting, perform the following steps:

1. Open the door of the sandblasting cabinet and place the piece inside the cabinet.



Figure 8 - Side door open



## Closing the cabinet door

Before you start sandblasting operations, ALWAYS make sure that the door of the sandblasting cabinet is closed via the special locking systems.

Exposure to a jet of compressed air and sand can cause serious injury to the skin and eyes.

2. Close the door of the sandblasting cabinet, there is a locking latch on the side door.

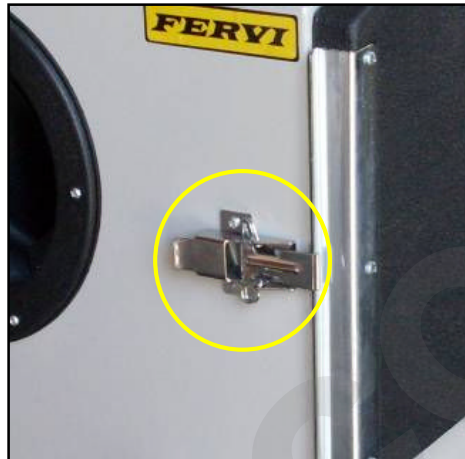


Figure 9 - Locking system

3. After inserting your hands into the protective gloves mounted on the machine, hold the gun and press the trigger, sending a jet of air / sand onto the piece to be "sanded". If the abrasive does not come out, check the nozzle of the gun (it could be blocked), and check that there are no obstructions or bent hoses.



## Protective gloves

ALWAYS use the protective gloves of the machine during sandblasting operations.

4. To perform proper cleaning of the part, the jet of sand must be applied with a smooth and circular movement.



## Sandblasting

The jet must not be too strong or concentrated in a single point on the piece, to prevent damage.

The jet should NEVER be aimed directly at the hands (even if protective gloves are being used).

## 8 MACHINE SAFETY

### 8.1 "Mechanical" Safety Devices

#### 8.1.1 Transparent screens

At the top of the sandblasting cabinet there is a transparent PVC screen that allows you to see what you are doing, and prevents abrasive micro beads, compressed air and other particles from causing damage to the eyes.



#### **Transparent screen**

Each time the Sandblasting cabinet is used check that the screen is not damaged or that there is a lack of transparency.

#### 8.1.2 Filters and suction systems

To prevent dust or other particles escaping from the sandblasting cabinet during processing, the sandblasting cabinet has an opening to which a suction and dust filtration system must be fitted (see [Figure 10](#)).



Figure 10 - Suction system connector

#### 8.1.3 Door locking device

To keep the access door of the sandblasting cabin closed, there is a locking device (see [Figure 9](#)).



## 8.2 Use of PPE



### Use of PPE

ALWAYS use appropriate personal protective equipment (PPE), such as:

- The protective gloves mounted on the machine;
- Goggles or face shields;
- Overalls or aprons;
- Safety shoes.



## 9 MAINTENANCE

### 9.1 Routine Maintenance



#### **Maintenance**

Whenever maintenance is carried out or parts are replaced:

- Remove the plug from the mains socket;
- Close the compressed air.

To ensure the safe operation of the sandblasting cabinet it is necessary to perform a variety of control and maintenance operations.

In particular:

1. Regularly clean the suction hose and the filters.
2. Regularly check the parts that wear out (such as nozzles and gloves).
3. Check the abrasive. The sand loses its abrasive power and mixes with the powder from processing, filter or replace it as needed.
4. Clean inside the cabin when necessary.
5. In the hoses and in the sand there must be no condensation or moisture.
6. Regularly check that the door seals are intact.
7. Do not use the sandblasting cabinet with a pressure above 7 bar.
8. When visibility is poor, replace the transparent screen.
9. Use an abrasive that is refined and free from dust.

The entire sandblasting system is subjected to wear and tear, as highly abrasive materials are used. Therefore, it is important to perform maintenance operations.



#### **Use of PPE**

When performing maintenance work or the replacement of parts it is necessary to wear specific PPE for workplace safety.

#### **9.1.1 Obstructions**

The gun nozzle may be obstructed by impurities that are found in the abrasive. Try to remove the obstruction by inserting a pointed object.

If the hose which sucks the abrasive appears closed, cover the outlet of the gun and let the air flow through the obstructed hose. Dust can fly upwards when this is done, so make sure the hose is inserted in the sand and the lid is closed.



### 9.1.2 Excessive amount of dust in the cabinet

This occurs if:

- The abrasive material is inefficient, i.e., it has lost its abrasive powers (rounding of the grains) or it is mixed with particles that detach from the work pieces. This usually occurs when just a little abrasive comes out of the nozzle along with a cloud of smoke, rather than just a steady stream of abrasive. Replace the abrasive.
- The air outlet is obstructed or the air flow is blocked. Cleaning the hole, will reduce the dust inside the cabinet.
- When the sandblasting jet is too wide and inefficient. Replace the nozzle or adjust the jet.

## 9.2 Replacing the parts of the sandblasting cabinet

### 9.2.1 Replacing the transparent screen

On the underside of the transparent screen, there is a replaceable transparent PVC film that is approx. 0.5mm thick.

If during work, the transparent screen does not allow good visibility, replace the film with a new one (Figure 11).

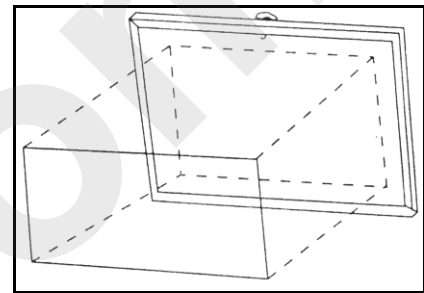


Figure 11 - Replaceable PVC film.

### 9.2.2 Replacing the sandblast gun nozzle

To perform the replacement of the nozzles it is necessary to proceed in this way:

- Loosen the lock nut (see Figure 12/A).
- Remove the nozzle that is damaged or has a diameter that is not appropriate for processing, extracting it from the gun (see Figure 12/B).
- Clean the inside of the gun barrel to remove any sand residues present (see Figure 12/C).
- Insert the new nozzle and tighten the nut again

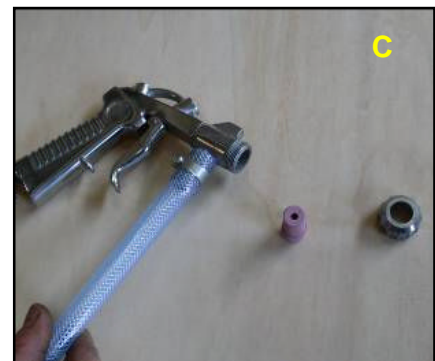
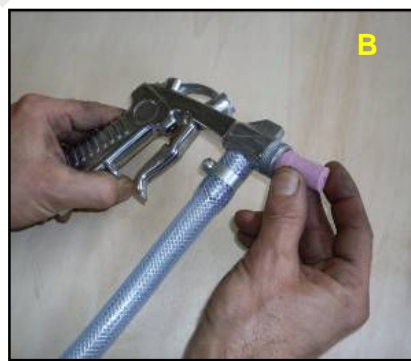


Figure 12 - Disassembly of the sandblast gun nozzle.



### 9.2.3 Replacing the gloves

To perform the replacement of the gloves it is necessary to loosen the fastening clip (ref. a in Figure 12), positioned inside the sandblasting cabinet.

Replace the damaged glove with one that is equal or equivalent, then re-tighten the clip (ref. 1).

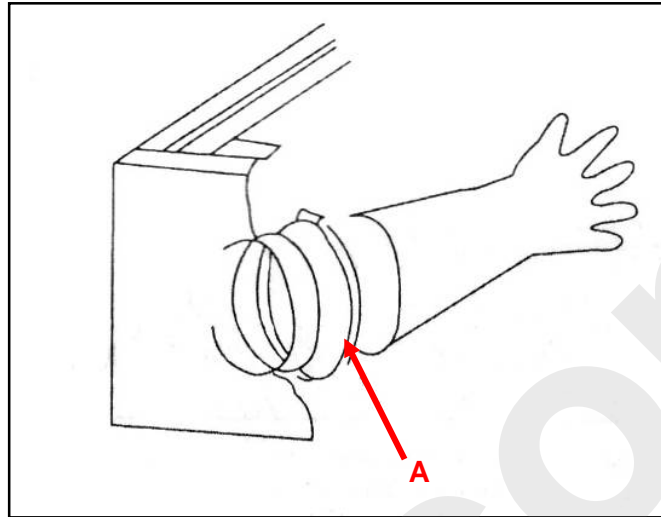


Figure 13 - Replacing the gloves.

## 9.3 Cleaning the Sandblasting cabinet

Regularly clean and take care of your machine, this will ensure perfect efficiency and a long working life.

Through the use of a compressor, regularly blow away dust and processing waste arising from the sandblasting operations that accumulate on the machine and on the protective screens.



### **Working with compressed air**

ALWAYS wear the protective goggles when using compressed air.

To clean the body of the machine and other external parts only use a cloth dampened with warm water, or at the most a mild detergent.



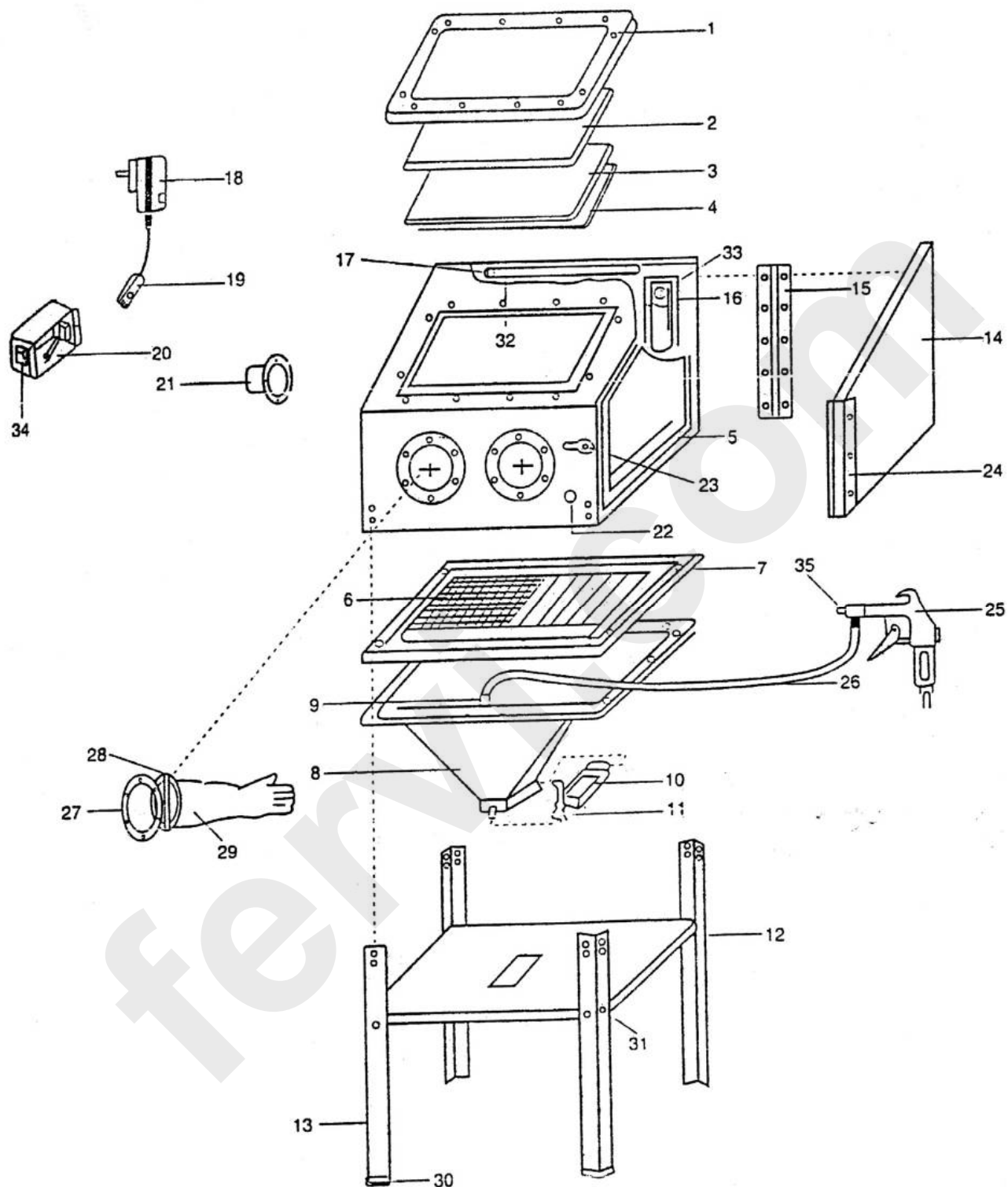
### **Cleaning the machine**

DO NOT use detergents or any solvents; the plastic parts are easily damaged by chemical agents.





## 10 REPLACEMENT PARTS



Number	Description	Number	Description
0575/01	Plastic frame	0575/19	Plug
0575/02	Glass	0575/20	Switch box
0575/03	Frame	0575/21	Suction connector
0575/04	Protective film	0575/22	Air connector
0575/05	Cabinet	0575/23	Closure device
0575/06	Dividing net	0575/24	Metal shutter
0575/07	Frame	0575/25	Sandblast gun
0575/08	Sand container	0575/26	Hose for sand suction
0575/09	Metal hose	0575/27	Retaining ring
0575/10	Cap	0575/28	Clip
0575/11	Cap lock	0575/29	Gloves
0575/12	Shelf	0575/30	Rubber feet
0575/13	Legs	0575/31	Screws
0575/14	Door	0575/32	Lamp
0575/15	Hinge	0575/33	Suction hole
0575/16	Cover	0575/34	Switch
0575/17	Lamp	0575/35	Ceramic nozzles
0575/18	Power pack		



## 11 TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
Excessive dust in the cabinet.	A) The air filter is clogged. B) Abrasive used up. C) Excessive abrasive in the cabinet. D) Loss of air from the hoses or seals.	A) Clean the air filter, keeping the opening away from the walls. B) Replace the abrasive. C) Remove the excess abrasive. D) Properly tighten the connections and make sure that the air lines are efficient.
Irregular sandblasting.	A) Too much abrasive. B) Humidity in the cabinet.	A) Remove the excess abrasive. B) Check the air hoses, and make sure there is no moisture inside.
Inadequate speed or inefficient jet.	A) Abrasive used up. B) Pressure too low	A) Replace the abrasive. B) Increase the pressure and make sure the valves are fully open.

## 12 CHECKS TO BE MADE IN THE EVENT OF MALFUNCTIONING

- The rear holes in the sandblasting cabinet should be open, where the aspirator is not provided.
- We recommend the use of an aspirator or vacuum cleaner.
- Keep the air filter clean.
- Replace the abrasive product if it is dirty.
- Replace the ceramic nozzle if the diameter of the hole is too wide.
- Check that the hoses that carry air and sand are not clogged, cover the gun outlet and blow to purge the hose.

### 12.1 Recommended material for any type of processing

- Art. 0581 → Glass micro beads for finishing (*not very aggressive*)
- ART. 0582/80 → Corundum for Medium Roughing (*aggressive*)
- ART. 0582/36 → Corundum for Roughing (*aggressive*)

## 13 DISPOSAL OF PARTS AND MATERIALS

If the machine is to be scrapped, its parts must be disposed of separately.



### **Respect the Environment!**

Contact a specialist centre for the collection of metallic materials.

Divide the materials according to their nature, employing specialist companies which are authorised for their disposal, in accordance with the requirements of law.

