

**Hand Operated Sieve Shaker
SV010**

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User Guide
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Chapter 1 GENERAL INFORMATION

1.01 WARNINGS

The manufacturer does not accept any responsibility for direct or indirect damage to people, things or animals and use of the appliance in different conditions from those foreseen.

The manufacturer reserves the right to make changes to the documentary information or to the appliance without advance notice.

Check the machine responds to the standards in force in the state in which it has been installed.

All operations necessary for maintaining machine efficiency before and throughout use are the operator's responsibility

Carefully read the entire manual before operating the machine.

It is vital to know the information and limitations contained in this manual for correct machine use by the operator.

Interventions are only permitted if the operator is accordingly competent and trained.

The operator must be knowledgeable about machine operations and mechanisms.

The purchaser must ensure that operators are trained and aware of all the information and clarifications in the supplied documentation.

Even with such certainty the operator or user must be informed and therefore aware of potential risks when operating the machine.

Safety, reliability and optimum performance is guaranteed when using original parts.

Any tampering or modifying of the appliance (electrical, mechanical or other) which has not been previously authorised in writing by the manufacturer is considered abusive and disclaims the constructor from any responsibility for any resulting damage.

All necessary operations to maintain the efficiency of the machine before and throughout use are the responsibility of the user.

1.02 WARNING AND DANGER INDICATIONS - SIGNS

The machine has been designed and constructed according to the current norms and consequently with mechanical and electrical safety devices designed to protect the operator or user from possible physical damage. Residual risks during use or in some intervention procedures on the device are however present. Such risks can be reduced by carefully following manual procedures, using the suggested individual protection devices and respecting the legal and safety norms in force.

This manual includes "Warning" and "Danger" indications in relevant chapters. These indications are shown with the words "Danger" or "Warning" in bold font and uppercase to make them highly visible.



WARNING

indicates that machine damage could be caused should indications be ignored.



DANGER

indicates that machine damage and/or injury to the worker could be caused should indications be ignored.

"**DANGEROUS ZONE**" indicates any zone inside or in the proximity of the appliance in which a person is exposed to the risk of injury or damage to health.

1.03 AIM OF THE INSTRUCTIONS MANUAL

This manual has been edited with the aim of providing all machine operators with all the necessary information on installation, use and maintenance from production to scrapping in as comprehensive and clear manner as possible.

All the procedures useful for any foreseeable emergency situations have been listed by the manufacturer and can be verified during use.

Operators, for whom this manual has been written, due to their competence must give instructions or operate the machine themselves.

The instructions manual must be carefully consulted by laboratory or site safety managers, equipment operators and any internal and external maintenance workers.

The manual is integral to the product and refers to this appliance only.

The manual must be safeguarded and always kept near the equipment so that it can be easily consulted whenever necessary.

IMPORTANT: The manual does not substitute the experience and technical training of the worker but must be considered a guide for carrying out its functions.

Furthermore all the norms and rules the operator should be aware of or consult for correct use of the machine and/or test performance can be found in the manual.

This responsibility is entrusted to the installer and Laboratory or Site Manager where the machine is installed.

The Constructor is available to provide further information.

1.04 MODIFICATIONS AND ENCLOSURES OF THE INSTRUCTIONS MANUAL

This manual reflects the state at the time of the launch of the machine on its market. If any modifications, improvements or adjustments have been made since machine supply the Manufacturer does not have to intervene on the marketed machine and will not consider the machine or the manual deficient or inadequate

1.05 DATI DI IDENTIFICAZIONE DELLO STRUMENTO

MODEL : A058-01

PRODUCTION DATA: see EC declaration

MANUALE CODE A058-01.M01.EN.01

1.06 MARCATURA CE

VEDI DICHIARAZIONE CE

1.07 USAGE

The Sieve Shaker A058-01 have been manufactured for sieving tests on materials having a thin granulometry, it eliminates the complexity of a sieving operation made by hand;
The machine is designed for site test where electricity is not available; by rotating the crank, the shaker applies a vertical and rotational vibration action.
It can hold up to 6 sieves Ø200 or plus pan and lid 8”

This appliance is for the exclusive use which it has been conceived for.
Any other use is considered improper and therefore negligent.
Machine use is allowed only in places free from danger of explosion or fire.
During operation check for conditions of danger.
immediately stop the machine should it be working irregularly, and consult the authorised dealer's Sales Service department.
It is the Client's responsibility to verify at the time of installation and use that no conditions of use arise which are different to those indicated.
Refer to the Constructor when in doubt.

1.08 OPERATORS

	DANGER WARNING	The use, transportation, installation, maintenance, demolition and disposal of the appliance are only permitted to "QUALIFIED PERSONNEL". This manual is exclusively aimed at "QUALIFIED PERSONNEL" and contains the necessary information for machine use.
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"QUALIFIED PERSONNEL" means people who, due to their training, experience and education, as well as knowledge of the relevant standards, limitations and measures, have been authorised by the "PLANT SAFETY MANAGER" to carry out any necessary activity and are able to recognise and avoid any possible danger.

The manufacturer recommends that the instructions, procedures and recommendations in this manual and the work safety legislation in force be scrupulously adhered to, even with the use of appropriate protection devices (whether individual or part of the machine).
Knowledge and respect of the instructions, safety warnings and danger in this manual are all necessary for installation, operation, management and machine maintenance with a minimal risk.
The "PLANT SAFETY MANAGER" has the following responsibilities and duties:

- To know the machine functions, its commands, safety and protection devices, possible dangers of use and all the information in this manual in detail. This knowledge can only be gleaned from detailed reading of this manual.
- To know the safety legislation in force in detail in order to operate the machine
- To recognise the "QUALIFIED PERSONNEL" for transportation, handling, installation, use, maintenance, disposal, etc.
- Correctly train and educate the "QUALIFIED PERSONNEL" before allowing them access to the machine. The personnel must also be exhaustively trained with regards to the machine's protection devices.

- Ensure the machine's safety devices are not tampered with or removed and are checked on a daily basis. Provide the operator appropriate individual protection devices according to the laws in force.

- The constructor is available for clarification, assistance and training and declines all responsibility for damage to things or people resulting from improper, incorrect and negligent use by untrained personnel.

1.09 STORAGE

	WARNING	The appliance must be stored and conserved in the original packaging and in a closed environment, protected from atmospheric agents with a minimum temperature of -15C°, and a maximum of +60C° and a maximum humidity of 70 %.
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1.10 TRANSPORTATION AND MOVEMENT

	WARNING	In order to avoid irreparable machine damage, move with care, do not overturn, protect from rain, do not stack, protect the packaging and its contents from bumps and sources of heat.
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During transportation and movement it is important to avoid bumps, overloading with other packages, exposure to freezing or heating atmospheric agents, or any other potentially harmful condition to the device, things or people. Machine transportation and movement must be entrusted to Qualified Personnel who can ensure correct movement.

 	DANGER WARNING	Do not transport or move the product should it be impossible to respect the conditions on the packaging or there be any doubts. Request information from the constructor.
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1.11 PACKAGING REMOVAL

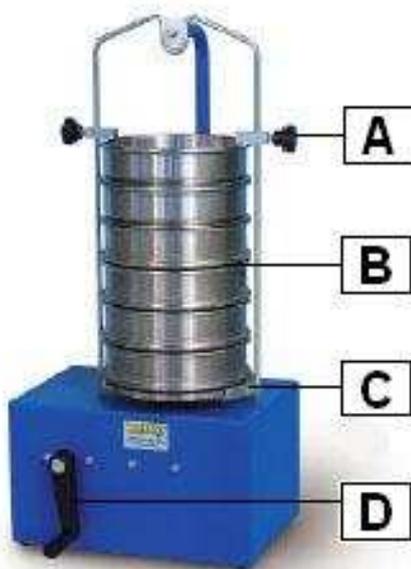
After removing the packaging check the machine is complete and that there are no visibly damaged parts. **DO NOT USE THE MACHINE** and refer to the constructor when in doubt.

	DANGER	The components used for packaging (plastic bags, polystyrene, nails, screws, wood, etc) must be kept out of reach of children, as they are sources of danger. These components should be placed in the appropriate containers.
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	WARNING	In order to avoid bumps and overturn adopt the normal and logical precautions. Before disposing of the packaging check all machine components such as accessories, utensils, instructions, documents etc have been removed.
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Chapter 2 | TECHNICAL CHARACTERISTICS

2.01 | GENERAL MACHINE DESCRIPTION



RETAINERS "A": they allow to fix tight the sieves to the sieve-shaker

SIEVES "B": the material to be sieved is put in these sieves (they are not supplied together with the instrument but they must be ordered separately).

SIEVE HOLDER "C": They allow to place a series of sieves on the base, following the specific needs of the operator.

CRANK "D": to start the sieving you must turn this crank: the sieve-shaker starts a shaking action with lateral, rotational and vibrating movements

2.02 | DIMENSION AND WEIGHT

LENGTH	300 mm
WIDTH	450 mm
HEIGHT	600 mm
WEIGHT	16 kg

2.03 | NOISE

The air noise emission levels shown do not necessarily imply the levels of exposure to the worker. The levels of exposure to the operator are obviously linked to the emission levels of the appliance; however other factors influence the levels of exposure to the operator: length of exposure, environmental characteristics, the presence of other machines etc. The appliance emission levels allow anyway an estimate to be carried out on the dangers due to noise.

	DANGER	Continuous use of the appliance and machines predictably present in the installation environment could cause a heightened daily personal exposure to noise.
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If the daily personal exposure is equal to or more than 85 dB (A) it is advisable to use the Individual Protection Devices (protective headphones, plugs, etc.). If the daily personal exposure is equal to or more than 90 dB (A) it is compulsory to use Individual Protection Devices (protective headphones, plugs, etc.). For further information consult the standards in force in the country of installation.

Average continuous equivalent acoustic pressure level L_{aeq} to the distance of 1 m	98 dB(A)
Level of acoustic power emitted by the LWA device	98 dB(A)
Standard	EN ISO 3746

Chapter 3	GENERAL SAFETY STANDARDS
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3.01	GENERAL STANDARDS
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To ensure the safety of machine operators:

- Any tampering with the appliance not pre-emptively authorised by the manufacturer exempts the manufacturer from any responsibility for damage caused by or to it.
- The removal or tampering with safety devices entails a violation of the safety standards.
- Machine use is only allowed in areas where there is no risk of explosions or fires.
- Only the original fittings can be used. The use of unoriginal fittings exonerates the manufacturer from all responsibility.
- Check the appliance is in ideal working conditions and that its parts are not worn or faulty before Carry out all necessary maintenance
- Do not wear loose clothing, ties, chains or anything else which could become caught in the frame or other moving parts of the appliance.
- Be aware of the danger of electrical shocks from direct or indirect contact due to unforeseen electrical faults.
- Do not subject the appliance to violent impact.
- Do not expose the appliance to fire, welding sparks or extreme temperatures.
- Do not bring the appliance into contact with corrosive substances.
- Do not wash the appliance with jets of water.
- Check the workspace around the machine is clear from potentially dangerous objects.
- The machine operator must wear appropriate work clothing such as protective glasses, gloves and mask in order to avoid damage from, for example, harmful dust projection. Wear a lower back support when lifting heavy parts. There should be no hanging objects such as bracelets or otherwise, long hair should be protected with relevant precautions, shoes must be appropriate for the type of operation to be carried out.

RISK OR DANGER	FORESEEN SAFETY MEASURE
DAMAGES TO THE EYES CAUSED BY PROJECTIONS OF MATERIAL	GLASSES
HEARING DAMAGES PRODUCED BY THE NOISE	HEADPHONES

DURING USE

When operating check there are no conditions of danger. Immediately stop the machine when it is functioning irregularly. Contact the authorised Sales Service department.

- For the operator's safety do not touch any part of the appliance when testing and use the appropriate individual protection devices in order to keep the operator safe.

In order not to have displacements of the sieve shaker caused by its vibrations, the appliance has to be placed on a flat surface having no inclination, clean and without oils or greases.

3.02	MACHINE SAFETY DEVICES AND PROTECTION
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DEFINITION: Protections are all the safety measures that consist of the use of specific technical means (repairs, safety devices) to protect people from dangers which cannot be limited reasonably in design.

	DANGER	Tampering with the protections or any appliance modification could cause risks to users or other exposed people. The manufacturer does not assume any responsibility for direct or in direct damage to people, things or animals following tampering with the protections.
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No safety devices are present on the sieve-shaker.

Chapter 4 | IN FUNCTION - USE



DANGER WARNING

Before setting the machine in motion it is essential that the Operator and Safety Manager have read the Instructions Manual and understood all parts of the machine and activities linked to it (Risks, Dangers, Functionality, Operation, Protections, Commands, etc.)

4.01 HOW TO PLACE THE SIEVES

The sieve-shaker can receive sieves with a diameter of 200mm and 8" (accessories not supplied with the instrument).

The sieves must be placed as follows:

1. Place the receiver in its place on the sieve holder of the sieve shaker base "**C**".
2. Add the sieves paying attention to start the positioning of the sieves using the smaller openings on the bottom and continuing with the bigger openings on the top.
3. At the end of the procedure add the lid and fix the sieve's series strongly through the retainers "**A**".

4.02 HOW TO PLACE THE MATERIAL



WARNING

Before proceeding with the normal use of the appliance ensure that the sieves installed on the appliance are suitable for the specimen that has to be tested (check on the chapter "**HOW TO PLACE THE SIEVES**").

The material that has to be sieved is usually placed in the upper sieve (the one with the larger openings) and then closed with the lid.

However the positioning of the material to be tested can be made in many different ways depending from the kind of test to be effected. For a proper preparation of the materials kindly check the standards referring to the test that has to be effected.

4.03 HOW TO START THE SIEVING

After placing the sieves and the material, turn the crank "**D**" to start the sieving.

4.04 TEST START UP

Before using the appliance regularly check it is working correctly by carrying out at least one complete empty cycle according to the previous instructions.

Should there be any problem consult the chapter "**DIAGNOSTICS**".

If the instructions in this manual do not provide the solution to the problem, contact Sales Assistance.

4.05 PRACTICAL EXAMPLE OF USAGE

Here under we describe some "standard procedures" allowing even to an operator without a wide experience to use the sieve shaker properly:

1. Place the sieves properly as explained in the chapter "**HOW TO PLACE THE SIEVES**" of this operation manual.
2. Place the material that has to be sieved as explained in chapter "**HOW TO PLACE THE MATERIAL**".
3. Fix tight the sieves to the sieve-shaker by means of the retainers "**A**".
4. After placing the sieves and the material, turn the crank "**D**" to start the sieving

Chapter 5 MAINTENANCE

5.01 ORDINARY MAINTENANCE

	DANGER WARNING	Do not perform maintenance – interventions on the machine which have not been quoted and described in this instructions manual without first contacting the manufacturer. Periodically clean all machine parts and oil the unpainted parts in order to preserve the machine and its efficiency. Avoid the use of solvents which damage paint and parts in synthetic material.
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After each test check that all the parts of the appliance are not damaged. In case something is damaged get in touch with the After Sales Service.

5.02 EXTRAORDINARY MAINTENANCE

For extraordinary maintenance operations refer directly to the Manufacturer..

5.03 AUTHORISED MAINTENANCE CENTRES

For information on the nearest authorised help centre it is essential to contact the manufacturer.

Chapter 6 SPARE PARTS AND ACCESSORIES

	WARNING DANGER	Only original spare parts can be used. Use of unoriginal spare parts exempts the manufacturer from all responsibility. Procedures for substitution of spare parts will be provided by the manufacturer along with the part. For spare parts contact the manufacturer's Sales Service department.
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To perform the sieving the following accessories are required:

Per portare a termine una setacciatura è necessario acquistare oltre al setacciatore:

- One receiver, Ø 200mm or Ø 8"
- One lid, Ø 200mm o Ø 8"
- One or more sieves or meshes, Ø 200mm o Ø 8" to be selected depending on the sieving the operator would like to carry out.

The Constructor is available to provide further information.

Chapter 7 INACTIVITY

Ensure all machine parts are in safe working order before operating it again should the machine be inactive for a long period of time. When in doubt contact the Manufacturer.

Chapter 8 DECOMMISSIONING THE MACHINE

Should it be decided that the machine is to be no longer used, proceed as follows:

- Disconnect the electrical supply network by removing the connecting cable therefore making it unusable.
- Make the potential sources of danger harmless, such as sharp or protruding parts.
- Dismantle the machine; divide it into similar parts and dispose of according to the standards in force.