



FILTRAmag PRO - User manual

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User manual



Version March 2024



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1. FIRST STEPS

Congratulations on your purchase of the FILTRAmag PRO filtration equipment.

Read this guide before you start.

The FILTRAmag PRO is a coolant cleaning filter for oil or emulsion mixed with water designed for grinding or milling machines.

This manual introduces you to the main functions in order to avoid risks to your health or that can may cause a breakdown or premature wear of the machine.

In case of any doubt, please contact us or one of our authorized distributors.

***Informative Note:** The use described in the manual of this filtration equipment therein may present some variations in use as our machinery is subject to possible construction modifications, depending on the incorporation of technological advances in our filtration equipment.*



2.SAFETY

2.1.Safety regulations

Carefully observe and apply the following safety rules, not respecting these rules may cause personal injury or damage to the machine itself.

The installation and maintenance of the machine described in this manual must be carried out only by operators who are familiar with its operation and have sufficient technical knowledge.

The FILTRAmag PRO filtration units are designed for the filtration of pure or water-soluble cutting oil, provided that the appropriate coolant is used, to the exclusion of any other type of operation.



DANGER HIGH VOLTAGE



DANGER OF ACCIDENT



DANGER DUE TO SPARK PROJECTION



WEAR PROTECTIVE SHOES



DANGER FROM SHARP TOOLS



USE HEARING PROTECTORS

These warnings do not include all possible risks that improper use of the machine could cause. For this reason, the operator must proceed with prudence and observing the rules.



2.2. Use and storage of the instruction manual

This instruction manual must be read and understood by all personnel who come into contact with the machine.

This manual is for:

- Indicate the correct use of the machine according to the type of work to be carried out.
- Provide the necessary instructions for the transport, adjustment and maintenance of the machine.
- Facilitate the ordering of spare parts and information of risks.

Limits of use of the manual:

The machine is intended for professional use and therefore the experience of the operator is required and of vital importance.

Importance and conservation of the manual:

This manual must be considered part of the machine and must therefore be attached to it until the end of its use.

Additional information and clarifications:

The user, owner or maintenance person can contact the manufacturer to request any additional information on the use of the machine and possible modalities for maintenance and repair intervention.

Expiration of responsibility:

The manufacturer is considered exempt from any liability in the event of:

- Improper use of the machine
- Use of the machine by untrained persons
- Serious failures in scheduled maintenance
- Unauthorized interventions or modifications
- Use of non-original spare parts.



2.3. Declaration of conformity

The company hereby **Elite Sharpening Machines, SLU**
C/Joan Oró, 27
ES-08635 Sant Esteve Sesrovires

declares that the product indicated below, based on its conception and construction, as well as the version put on the market by our company, complies with the mandatory basic health and safety requirements of the CE directive.

This declaration loses its validity in the event of unauthorized modifications to the product.

Product name: ***ELITE FILTRAmag PRO***
Product type: ***Filtration equipment***
Serial No.: _____

EC Directive Competences:

- **EC Machinery Directive (2006/42/EC)**
- **European directive on electromagnetic compatibility (2014/30/EU)**
- **The protection purposes of the CE low voltage directive (2006/95/CE) were fulfilled according to annex I, nr. 1.5.1 of the machinery directive 2006/42/EC**

The technical documentation was compiled by Legal representative of the documentation:

Sergi Valls Gramunt
Joan Oró, 27
ES-08635 Sant Esteve Sesrovires

Date / manufacturer - Signature: _____

Signatory data: Sergi Valls Gramunt, manager



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3. TECHNICAL DATA

In the following information table, find the list of technical specifications of the filtration equipment described in this manual.

TECHNICAL DATA	FILTRAmag PRO
Filtration flow rate	Up to 200 l/min.
Filtration quality	5, 10 o 25 μ m
Connection to the sharpening machine	Return to filter by gravity. 2" filter inlet. Sending coolant through the own pump of the grinder installed in the filter.
Automatic filling of the filtration tank	Selectable automatic tank refill. In the case of oil emulsion filling, the mixture can be selected from 1% to 5%. In the case of filling with oil, the oil tank must be at a height higher than that of the filter.
Chiller System for coolant	Optionally available with selectable temperature regulation between 15°C to 30°C.
Filter control	With LCD display, indication of working hours, automatic refilling system and clean and dirty coolant levels.



4. TRANSPORT

The FILTRAmag PRO is delivered packed in a wooden crate.

During all transport and transfer, the machine must be kept in its original vertical position, any variation in this position may lead to the loss of the guarantee.



AVAILABLE VERSIONS		
Model	Size	Weight
FILTRAmag PRO without chiller	1580 x 1180 x 1880 mm.	460 Kg. in running order
FILTRAmag PRO with chiller	1580 x 1180 x 1880 mm.	520 Kg. in running order



4.1. Instructions for unpacking and setting up

Take special care when lifting the load: The load may not be centered!

To lift or move the load, use a forklift with blades long enough to support the machine, taking into account the width and depth of the machine for the calculation of the weights to lift.

Once the packaging has been opened, remove the fixing stops from the feet of the machine



Remove protections before connecting the machine.



5.INSTALLATION

5.1.Machine placement

Before any work make sure that the machine is well aligned and does not oscillate at any of its ends, in which case it must be wedged to avoid movements. For its correct level it is necessary to use a leveling tool. This check must be carried out both longitudinally and transversally.



Poorly levelling the machine can cause unwanted vibrations and premature wear of the linear guides.

Remember: before connecting the machine, remove any protection that the machine may have to protect the components during transport.



WARNING: The machine must not be used under any circumstances by unqualified or unauthorized personnel.



5.2. Electrical connection



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The electrical connection of the machine must be carried out by qualified technical personnel only at the voltage indicated in the machine order / machine identification plate.

For any doubt about the voltage, consult the manufacturer before the connection.

Any claim for an incorrect connection will be out of warranty.



5.3. Main components of the machine



1. Control panel
2. Chiller (optional)
3. Filtering cartridge
4. Pumps of grinding wheels (not provided)
5. Pump for chiller unit (optional)



5.4. Control panel

The FILTRAmag PRO filtration system is very simple to operate, all functions can be controlled from a single control panel:



1. ON / OFF chiller unit (optional)
2. Light indicator clean coolant level (ON = low coolant)
3. Automatic coolant fill (optional)
4. START button.
5. STOP button.
6. Emergency stop.



5.5.Connection

1.- Connect the dirty coolant exit tank of the machine to be filtered to one of the 2" inlet of the FILTRAmag PRO, it may be required a reducer adaptor.

2.- Place the grinding machine pump to the clean zone of the FILTRAmag PRO, it may be required an adaptor plate suited to you pump holes in order to correctly place the pump. The coolant tube and/or power cable of your grinding machine pump will require a prolongation.

4.- Fill the FILTRAmag PRO coolant level up to the maximum it permits your machine coolant tank or the FILTRAmag PRO coolant level. IT IS VERY IMPORTANT TO HAVE THE SAME LEVEL IN BOTH MACHINES.

3.- Connect the power supply plug to the voltage designed in the FILTRAmag PRO. The motor has a built-in protection that stops it in the event of overheating.

4.- Turn the FILTRAmag PRO main switch ON. Deactivate the emergency stop button in case it is active. Do not open the control panel while the indicator is on!

5.- Press the START button for operation, the machine will start filtering immediately, if not, turn off the machine and check that all connections are correct. VERY IMPORTANT: Check that the pumps turning sense is correct. You can find it indicated in the pump itself.

IMPORTANT: If a cooling system is used, make sure that the ventilation grille is always free so as not to obstruct the air circulation.



5.6.Wiring

The FILTRAmag PRO filtration system must be connected strictly to the voltage indicated on the machine order and on the machine itself. Connection to a voltage other than that specified may cause the machine to malfunction and represents a risk to persons using the machine.

This installation must be carried out by a qualified technician and checked with a voltage meter before switching on the machine.

It is absolutely essential that the connection cable cross-section is as required, that the machine has a dedicated, overload-protected socket and that it is as close as possible to the mains socket.

We do not accept any liability for an incorrect connection.

Check that the emergency stop is deactivated before setting up.



For sections 6 to 8 of this manual, as well as for more up-to-date information and useful videos on the operation of the machine, please refer to our website

www.elite.es



www.elite.es/en/support/manuals/filtramaq-pro



9.ACCESSORIES AND CONSUMABLES

9.1 Coolant agents

We recommend to use ELITE SintoCut PRO MIX or equivalent to mix with water emulsion. If you prefer to grind with oil, you can use our SintoCut PRO MD. Both coolant are available in 20 liters can or 200 liters barrel.



SintoCut PRO MIX 20 L

SintoCut PRO MIX 200 L





SintoCut PRO MD 20 L

9.2. Filtering cartridge



Filtering cartridge



www.elite.es/en/support/manuals/filtramaq-pro

For more up-to-date information and useful videos on how to operate the machine, see our website www.elite.es