

ELITE SVG 850

User Manual



Version March 2023



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1. PRIMEROS PASOS

Congratulations on your purchase of the ELITE model SVG 850 saw blade grinding machine.

Read this guide before you start.

The SVG 850 is an automatic grinding machine for the top and face of circular saws with tungsten carbide teeth from $\varnothing 100$ to $\varnothing 850$ mm.

It comes equipped with 5 CNC axis for complete machining of all common teeth geometries in one cycle.

This manual introduces you to the main functions of the grinder in order to avoid risks to your health or that 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 circular saw sharpener described 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 sharpening 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 ELITE sharpening machines of the SVG 850 model range have been designed for the sharpening of circular saws with carbide teeth, excluding 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.



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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 SVG 850***
Product type: ***Circular saws sharpening machine***
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



ESTA PÁGINA SE HA DEJADO EN BLANCO INTENCIONADAMENTE



3. TECHNICAL DATA

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

FEATURES

Saw diameter	100 to 850 mm (4" to 33.5")
Saw hole diameter	From \varnothing 10 mm.
Saw body thickness	Up to 8 mm.
Tooth pitch	From 1 to 125 mm.

SHARP BACK

Cutting angle	From +5° to +25°
Bevel angle	From -45° to +45°
Sharpening path	Up to 25 mm.

FACE SHARPENING

Cutting angle	From -10 to +25°
Sharpening path	Up to 25 mm.

TECHNICAL CHARACTERISTICS

Grinding wheel engine	0.33 kW.
Wheel speed	Adjustable from 2500 to 5000 RPM
Wheel diameter for top grinding	\varnothing 150 mm.
Wheel diameter for face grinding	\varnothing 175 mm. / \varnothing 200 mm*
5 axis CNC	A: Tooth Pitch, B: Cutting Angle, X: Grinding Load, Y: Tooth Bevel Angle, Z: Grinding Travel
Available versions	Half cabin - Full cabin.
Machine dimensions	1410 x 1225 x 1800 mm.
Machine weight	640 kg



4. TRANSPORT

The ELITE SVG 850 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.



Machine model	Dimensions (cm)	Weight (kg)
SVG 850	141x123x180	740



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

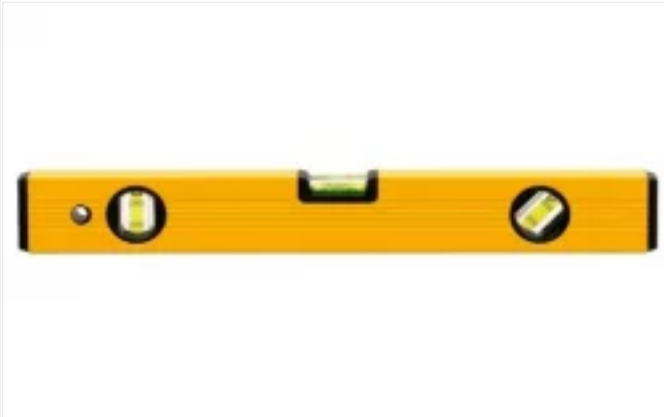




5.INSTALLATION

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



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



5.2. Electrical connection



DANGER HIGH VOLTAGE!

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

Full enclosure version



1. Machine operating door.
2. Full enclosure cabin.
3. Machine control panel.



Versión with half enclosure



1. Machine operating door.
2. Fixed right enclosure.
3. Machine control panel.



5.4. Control panel



1. LCD screen
2. Z axis up / grinding wheel up.
3. X axis left / grinding wheel left.
4. X axis right / grinding wheel right.
5. Encoder to navigate through screen menus.
6. Z axis down / grinding wheel down.
7. Indexing pawl movement up/down.
8. Clamping open/close.
9. LED cabin light switch ON/OFF.
10. Cooling pump ON/OFF.
11. START button.
12. STOP button.
13. Emergency stop.



www.elite.es/en/support/manuals/svg-850

For more updated information and helpful videos on how to operate the machine, check our website www.elite.es