



**SC 10 - User manual**

# **ELITE SC 10 User Manual**



Version March 2023



**THIS PAGE IS NOT WRITTEN INTENTIONALLY**



# 1. FIRST STEPS

Congratulations on your purchase of the ELITE model SC 10 automatic band and circular saw sharpening machine.

!! Read this guide before you start.

The ELITE SC 10 is an automatic band and CV circular saw sharpener specially designed for sawmills, for sharpening band saws from 20 (3/4") to 250 mm (9.8") with different tooth shapes. Its design and simple programming allow sharpening work to be optimized in an agile and safe way. This manual introduces you to the main functions of the sharpening 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 blade sharpening machine 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 SC 10 model range have been designed for the sharpening of band and circular saw 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.



**THIS PAGE IS NOT WRITTEN INTENTIONALLY**



## 2.3. Declaración de conformidad CE para máquinas

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 SC 10**  
Product type: **Automatic band and 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



**THIS PAGE IS NOT WRITTEN INTENTIONALLY**



## 3. TECHNICAL DATA

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

### FEATURES

#### For sharpening band saws

Band saw width	from 20 to 250 mm. (3/4" to 9.8")
Band saw thickness	Up to 6 mm. (0.23")
Tooth pitch	From 0 to 55 mm. (0" to 2-1/4")
Sharpening speed	22-29-36 teeth /minute

#### For sharpening circular saws

Circular saw diameter	From 250 to 450 mm. (9,8" to 17,7")
Tooth profiles	N, O, S, SB
Angle	From 3° to 30°
Grinding wheel dimension	220 x 13 x 20 mm.
Grinding wheel motor	0,75 kW
Engine power	0.55 kW
Connection	220 V. 60 HZ. 3 Ph
Machine dimensions	1100 x 750 x 1400
Machine weight	148 kg



## 4. TRANSPORT

The ELITE SC 10 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)
SC 10	1200x820x1560	185



## 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

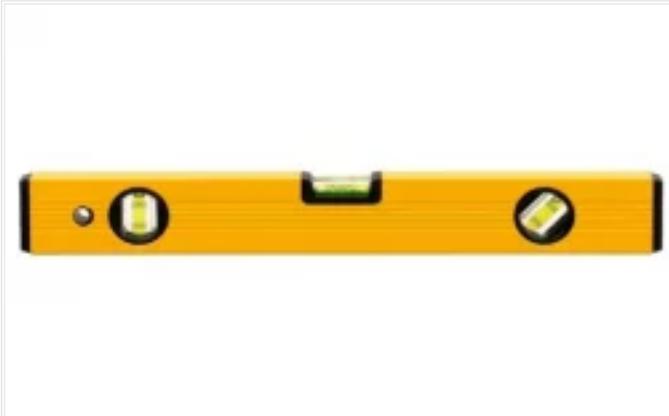




## 5.INSTALLATION

### 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!**

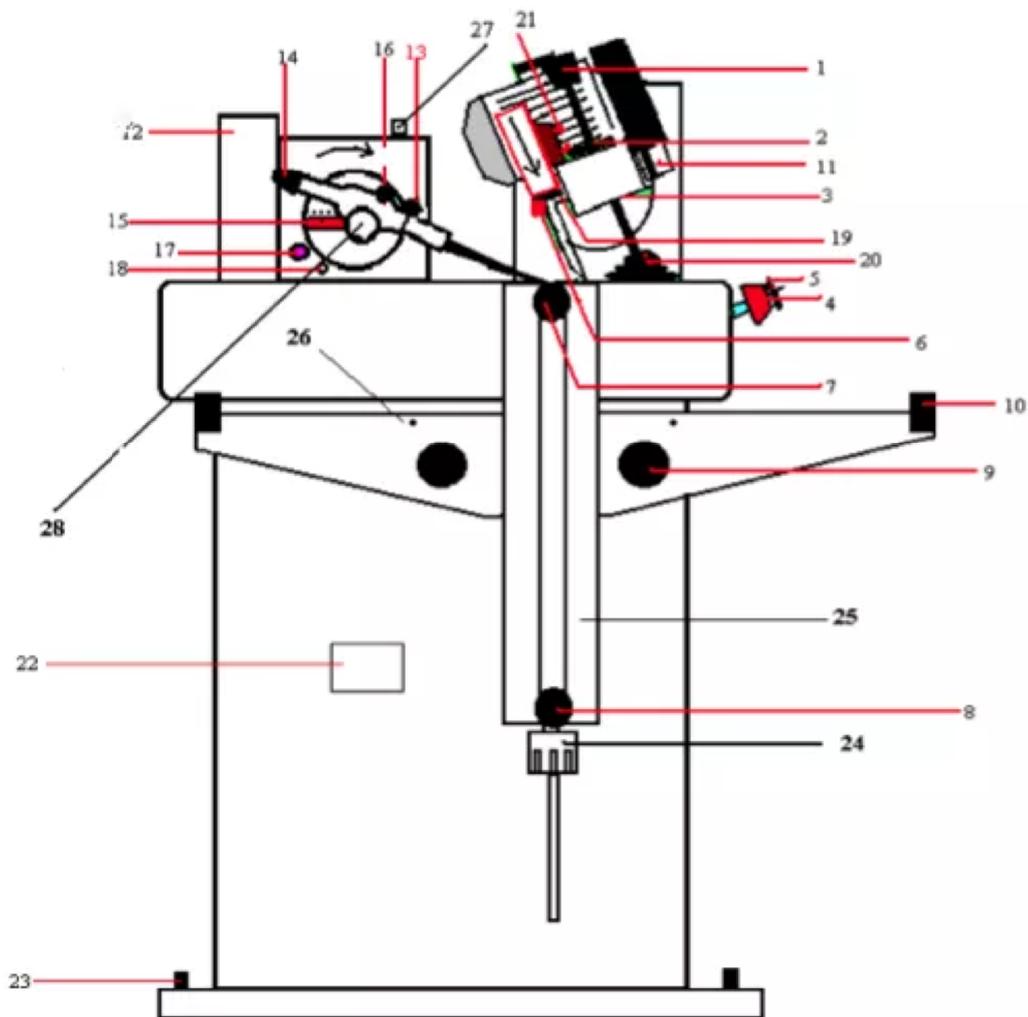
The electrical connection of the machine must be carried out by qualified technical personnel only at the voltage indicated in the machine order / machine identification plate.

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



1. Manual bar for wheel reach depth adjustment
2. Counter screw
3. Screw for adjusting the grinding wheel under the saw tooth
4. Manual bar for adjusting the height of the saw tooth; screw to extract the tooth
5. Graduated screw
6. Protective wheel
7. Manual bar for holding the saw
8. Bar for fixing
9. Screw for fixing the height of the saw
10. Saw guide
11. Strap
12. Belt guard



13. Screw for tooth pitch adjustment
14. Manual bar for fine adjustment of the sharpening of the front of the tooth
15. Tooth pitch plate
16. Saw fixing screw
17. Oil gauge
18. Oil release screw
19. Space for key 22
20. Protective strap
21. Wheel guard release screw
22. Technical and test data
23. Grinding screw
24. Bar to raise the saw
25. Jaw of the saw
26. Solid surface
27. Oil screw
28. Screw
29. Set screw n.14
30. Useful for circular saws

## 5.4. Control panel



1. Emergency stop button
1. Grinding wheel ON/OFF
2. Feeding pawl ON/OFF



[www.elite.es/en/support/manuals/sc-10](http://www.elite.es/en/support/manuals/sc-10)

**For more updated information and helpful videos on how to operate the machine, check our website [www.elite.es](http://www.elite.es)**