



ELITE B 20 - User manual

ELITE B20

User manual



Version September 2024



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1. FIRST STEPS

Congratulations on your purchase of the ELITE model B 20 drill and countersink sharpening machine.

Read this guide before you start.

The ELITE model B 20 is a drill and countersink sharpening machine. It can sharpen drill bits from $\varnothing 1$ to $\varnothing 20$ mm

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

If you have any questions, please contact us directly or one of our authorized distributors

Informative Note: The use described in the manual of this knives grinder 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 rules

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 model B 20 drill and countersink sharpening machine has been designed for sharpen drill bits from $\varnothing 1$ to $\varnothing 20$ mm. 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 on 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 B20***
Product type: ***Drill and countersink 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



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3. TECHNICAL DATA

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

TECHNICAL DATA	ELITE B 20
Sharpening capacity	From $\varnothing 1$ to $\varnothing 20$ mm (0.039" to 0.78")
Type of drills	2-3 and 4 cuts drills for wood or steel, right and left
Travel range. Motorslide	55 mm.
Travel range. Prism feed	45 mm.
Clamping range prism	2,0 - 20,0 mm
Connection voltage	110/220 V. single phase
Noise emission	<70 dB (A)
Flow time of grinding wheel	around 10 seconds
Machine dimensions	290 x 220 x 250 mm
Weight net	13,5 kg



4. TRANSPORTATION

The ELITE B 20 sharpening machine is delivered packed in a wooden box.

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



AVAILABALE VERSIONS

Model	Packing size (mm)	Peso bruto (kg)
B 20	370 x 310 x 260	32



4.1. Unpacking and assembly instructions

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 when calculating the weights to be lifted.

To unpack, remove the top panel and any wooden blocking pieces.

The machine is supported by wooden supports bolted to the box. Remove them before attempting to move it.





5. INSTALLATION

5.1. Positioning the machine

Before any work, make sure that the machine is properly aligned and does not oscillate at any of its ends, in which case it must be wedged to prevent movement. To ensure proper levelling, a levelling tool must be used. This check must be carried out both longitudinally and transversely.



Poor levelling of the machine can cause unwanted vibrations and premature wear.



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



5.2. Electrical connection



HIGH VOLTAGE DANGER!

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

The ELITE B 20 sharpener must be connected strictly to the voltage indicated on the machine order and on the machine itself. Connection to a voltage different from that indicated may cause a breakdown in the machine and represents a risk for people using the machine.

For connection to the mains, the machine requires 1 Ph.

This installation must be carried out by qualified technical personnel and checked with a voltage meter before turning on the machine.

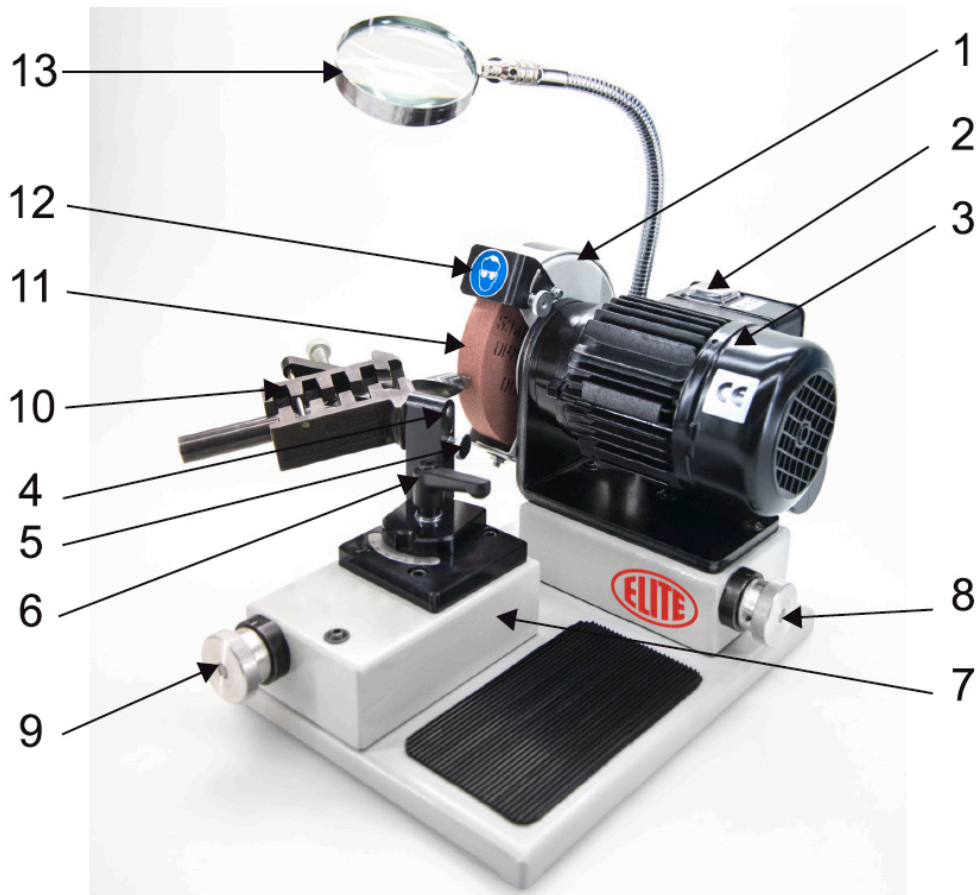
It is absolutely essential that the section of the connection cable is the required one, that the machine has a dedicated socket protected against overloads and that it is as close as possible to the power outlet.

We decline any liability for incorrectly made connections.

Once the connection has been made and checked, turn the main ON/OFF switch to the ON position.



5.3. Main components of the machine



- 1.Grinding wheel cover, complete
- 2.Motor switch (left- or right- hand turn)
- 3.Motor 230 V 50 Hz single phase
- 4.Prism support with 2 boring for prism fixation
- 5.Knurled screw for prism fixation
- 6.Clamplng lever for top angle adjustment
- 7.Slide for drill feed
- 8.Knurled nut with scale for motor feed
- 9.Knurled nut with scale for drill feed
- 10.Reversing prism, clamping range from 2-20mm
- 11.Special corundum grinidng wheel
- 12.Adjustable splash guard
- 13.Optical lens



5.4. Optional accessories

- 3 cuts drills adaptor
- Morse taper 1 short drills holder
- Morse taper 2 short drills holder
- Special corundum grinding wheel
- Diamond grinding wheel
- CBN Grinding wheel

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/elite-b-20-user-manual



10 ACCESSORIES AND CONSUMABLES

10.1 Grinding wheels

We recommend using ELITE ref. nr. B20-4. Corundum \varnothing 125x20x20 mm



Corundum grinding wheel

We recommend using ELITE ref. nr. B20-5. Diamond grinding wheel \varnothing 125x20x20 mm



Diamond grinding wheel

We recommend using ELITE ref. nr. B20-6. CBN grinding wheel \varnothing 125x20x20 mm.



CBN grinding wheel



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