

# Bevelling Solver



Device for calculating the cutting plan

*Art.No.1900*

*(AA battery version)*



Dear Customer, Congratulations on your purchase of the Bevelling Solver (BS).

Instructions for use

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### **Destination**

BS - Beveling Solver is a device for easy and intuitive calculation of the cutting plan for UZ Line machines, manufactured by N.KO Machines. After entering the required values of the chamfer size, chamfer angle, or material thickness or strength of the material to be processed, the cutting plan is automatically calculated for the correct setting of the chamfering machine.

- BS is only a value calculator for machine settings. When setting up the machine itself, it is necessary to be familiar with each individual UZ Line machine, or to follow the instructions for use of the specific UZ Line machine.
- The values calculated by BS are theoretical and assume proper preparation of the material to be processed. If the material to be machined is not properly prepared (uneven cutting edge or if the machined edge is not perpendicular), the resulting bevel may vary.

### **Safety Policy**

- Do not use the BS in an environment or situation where close attention is required or when driving a vehicle.
- Do not touch the BS with wet hands.
- Use only AA batteries. Observe the correct polarity when installing the batteries.
- Do not repair damaged equipment yourself.

### **Maintenance BS**

- Proper maintenance of the BS will ensure trouble-free and reliable operation of the equipment.
- Keep the BS dry and avoid exposing the BS to excessive humidity or, conversely, extremely high temperature. Do not expose the BS to direct sunlight.
- Do not store the BS at temperatures below 0°C . There is a risk of damage to the battery.
- Do not expose BS to rapid temperature changes. This could cause moisture to condense inside the unit and cause it to fail. If condensation occurs, allow the BS to dry properly before use.
- Prevent BS from falling and avoid the risk of shocks.
- Do not clean the BS when it is switched on. To clean the display, use suitable products and cloths designed specifically for this purpose. Failure to do so may damage the display surface.
- Do not attempt to repair or modify the device in any way. Otherwise, the manufacturer disclaims liability for any damages. This will also void the warranty.

### Equipment description and technical data

Display resolution	320x480
Display diagonal	4"
Display type	TFT
Power battery	4x AA alkaline batteries.
Operating temperature	10°C to 35°C (50-95F)
Weight of the device	300g (0.6 lb)
Dimensions of the device	170 x 96 x 44 mm (6.7" x 3.7" x 1.7")
Compatible with	<ul style="list-style-type: none"> <li>• UZ12 Ultralight</li> <li>• UZ15 Rapid</li> <li>• UZ18 Hardworker</li> <li>• UZ29 Speeder</li> <li>• UZ50 Triumph</li> <li>• UZ50 Triumph + UZP30</li> </ul>
Features	<ul style="list-style-type: none"> <li>• Touch screen</li> <li>• 17 optional language versions</li> <li>• Optional metric or imperial units</li> <li>• Rubber protective sleeve</li> <li>• Built-in magnet for attachment to the machine</li> </ul>
The package contains	BS equipment
Order No.	1900



## Use

1. After unpacking the BS, remove the protective rubber sleeve, unscrew the battery compartment cover and insert AA size alkaline batteries (batteries not included). Note the correct polarity (see graphic in the battery compartment).



2. Press the main switch to switch on the device. The first time the device is started, a safety warning will be displayed in English. Press the OK button.
3. After confirming the security policy, the user language settings environment is displayed.
4. Then the setting environment for the other system values is displayed. Here you can set:
  - 4.1. User language BS.
  - 4.2. Metric or imperial units.
  - 4.3. The type of machine you intend to use the BS for.
  - 4.4. Time until the screen goes off (system goes to sleep).
4. Confirm and save the selected preferences.
5. The environment for entering the values required for the cutting plan calculation is displayed. The values required for the correct calculation of the cutting plan vary from machine to machine.
6. You can use the factory preset values to enter the values. They are displayed when you click on the value button. Alternatively, the values can be changed incrementally using the +/- buttons.
7. If some values cannot be entered, they are probably too low or too high for the machine. Check the maximum and minimum capacity of the specific beveling machine.
8. Press the OK button. The resulting cutting plan calculation is then displayed.
9. The resulting cutting plan displays the values needed to set the selected beveling machine. These values vary from machine to machine.
10. Always use and enter the resulting BS values for the purpose of setting the beveling machine in accordance with the instructions of the respective beveling machine.

 TIP: If the BS is used for the UZ50+UZP30, the cutting plan also contains information about the necessary support bar (plate fence) according to the type of bevel and thickness of the material to be processed. It may happen that the BS offers choice of two suitable support rails. The final choice is then up to the operator. Both rails are suitable

 TIP: During automatic sleep, the results of the cutting plan calculation remain available even after the BS wakes up again.

 TIP: The set input preferences will remain stored in the BS and the security warning will be displayed in the preset language when the BS is restarted.

 TIP: The top right corner of the display shows the battery level.

 TIP: If you hold the start button for 4sec. The current firmware version will be displayed.

 TIP: If you hold the start button for 8sec. The display calibration process will be displayed. Several dots in the form of crosses will appear on the display. The crosses must be pressed successively with a suitable object. Preferably with a blunt pencil.

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