

BGUIDE®

MANUAL

A product from **RE·SOLUTION**

Using your new BGUIDE® you will be able to guide and document your buffing and cushion gum application, with its combination of advanced sensor and computer technology.

BGUIDE® gives you an until now unseen positioning accuracy in order to avoid crashing into the steel belt during final buffing sequences, as the BGUIDE® gives you the precise distance between the buffed tyre surface and the steel belt / breaker on the full crown area, with an accuracy of +/- 0,3 mm

If you uses your BGUIDE® for cushion gum application control the measuring accuracy is +/- 0,0 mm.

The BGUIDE® performs 30 individual measurements per sec. at a distance up 6.5 mm from the buffed surface.

Contents:

- 1 pc BGUIDE®
- 1 pc Charge holder, Charger and cable 24 Volt
- 1 pc Transport security Box

Function of the BGUIDE®



ON / OFF BUTTON:

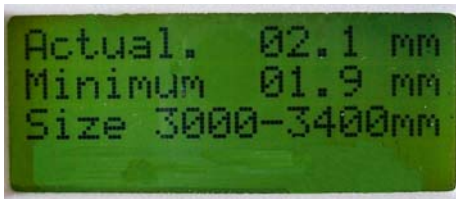


The ON / OFF button allows the operator to turn the BGUIDE® ON and OFF in order to minimize consumption of power from the batteries.

In order to obtain full accuracy the BGUIDE® should be powered ON for a period of app. 40 minutes before operation. (Used before 40 minutes could add +/- 0,2 mm to the accuracy)

Please note that for recharging of batteries the BGUIDE® should be turned ON.

DISPLAY:



Actual:

This figure shows the actual distance between the surface and the steel belt.

OBS 1 If the distance is above the measuring range " --- " will show in the display.

OBS 2 Just behind the "I" a flashing dot appears indicating that the measuring circuit is operational. If the dot disappears reset the BGUIDE (see below)



Minimum:

This figure shows the minimum measured distance between the surface and the steel belt since last resetting.

The measured minimum value will show until a manual resetting is performed. (for resetting see below).



Size:

In this line the selected size of casing measured by circumference is shown. For resetting of size see below.

DUAL FUNCTION BUTTON:



First function: A short push on the button will make the latest registered Minimum value disappear and " --- " will appear, ready to measure a new minimum value.

OBS. Every new measurement should start with the resetting as described above.

Second function: In order to increase the overall accuracy, measuring with the BGUIDE® is carried out in 4 different areas, each related to the actual tyre circumference.

The different areas are shown in the line **Size**.

The 4 areas are:

Area 1: 2100 – 2400 mm

Area 2: 2401 – 2700 mm

Area 3: 2701 – 3000 mm

Area 4: 3001 – 3500 mm

Selecting the wanted areas is done via the dual-function buttons scroll-function. Keeping pressure on the button will shift the area, and when the wanted area shows in the display, take the pressure off the button.

OPERATION:

BUFFING CONTROL

(Only start measuring after any pattern has been buffed off)

- Step 1.** Take the BGUIDE® out of the charge holder / Turn the BGUIDE® ON
- Step 2.** Reset the minimum value with a short push on the Dual Function Button.
- Step 3.** Choose the relevant Size / area of the tyre by means of the Dual Function Button



- Step 4.** Hold the BGUIDE® onto the tyre when it is rotating, as illustrated, and make sure that all 4 wheels are in contact with the tyre surface. Move the BGUIDE® sideways over the selected crown area, and observe the figures shown in the display. Use the values shown to guide your remaining buffing. Make sure that the tyre has made at least one full rotation when the BGUIDE® has been moved sideways over the crown area, in order to have as reliable a measurement as possible.

Hints:

- The more rotations → the more measured points.
- More measured points = higher accuracy.
- One rotation per 2 seconds = 60 measuring points.
- Worn rasp knives increase the distance between tyre surface and steel belt; caused by rough surface.

Warning: in order to protect the operator from being hit by part of the tyre; actual measuring with the BGUIDE® should not be performed when rasp knives are in direct contact with the tyre.

CUSHION GUM CONTROL:

1) Mount the casing on the Extruder
(extruder/builder combination)

2) Hold the BGUIDE® on to the casing and let
it rotate full 360° in minimum 3 positions:



Left



Middle



Right

3) Make a note of the “Min value” for each of
the 3 positions.

4) Apply cushion Gum

5) Rotate the casing again, and place the
BGUIDE® on to the casing again on same
3 positions as described above:



Left



Middle



Right

- 6) Make a note of the “Min value” for each of the 3 positions.
- 7) Compare the values noted under paragraph 3 and the ones noted under paragraph 6. Differences are equal to the cushion gum thickness.

General information:

Resetting:

For resetting a “resetting button” is placed inside the device and can be reached via a small hole placed just above the type identification.

For any resetting use a small pick (tooth) or similar.

Resetting should only be necessary in very special cases – such as a freezing display or similar.



DIN socket:

The DIN socket is fitted for internal calibration of the BGUIDE® only.



Mounting of charge holder:

It is advised to “park” the BGUIDE® in the charge holder when not in use.



The charge holder should be mounted with screws through the 3 holes.

OBS: When selecting a place to for the charge holder access to 230/110 Volt power supply should be taken into consideration.

If for any reason the BGUIDE® has not been kept recharged for more than 5 hours recharging in accordance with point 1 (below) should be carried out.

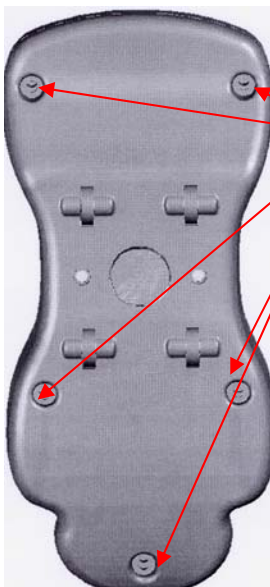
If the rechargeable batteries have to be replaced, follow the procedure below.

Handling batteries:

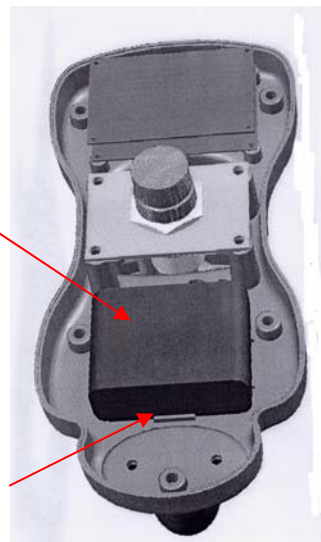
Recharging can only take place when the BGUIDE® is placed in the charge holder, the BGUIDE® is turned ON, and the charge unit is connected to the main power system.

The BGUIDE® is powered via 10 1.5 Volt rechargeable batteries type AA. These batteries have to be recharged following these instructions:

1. For a 100 % (full) recharge, the batteries should be recharged for a period of **minimum 24 hours**.
2. When not using it for measuring purposes place the BGUIDE® in the charge holder and it will automatically be kept recharged at operational level.



1. Place the BGUIDE® upside down and remove the 5 Allen screws. Then take off the bottom cover plate.
2. Disconnect the battery cassette from the wire connector. Replace the used batteries with new ones of same rechargeable type. Make sure that new batteries are placed exactly as illustrated on the battery cassette (+/-)
3. Remount the wire connector and remount the battery cassette in its base position, between the special guides.
4. Finally remount the bottom cover plate, and tighten the 5 Allen screws.



Technical specification:

Length: 290 mm
Width: 130 mm
Height: 150 mm
Weight: 1,8 kg
Power: 100 - 230Volt / 24 Volt – 50 HZ
Battery: 10 pc – 1.5 Volt rechargeable type AA



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