

Initial operation

- Insert the connection cable with the solid safety insulation connector according to the colour code into the connectors of the device.
- **Note:** The connectors **automatically click in** and can only be **released by pressing them in a second time!**
- Connect the mains cable to the socket, but keep the device switched off or turn the selection switch to "0".

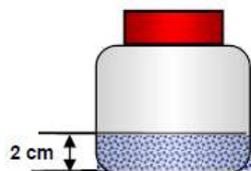
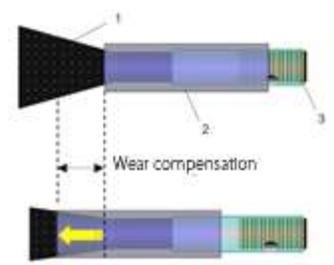
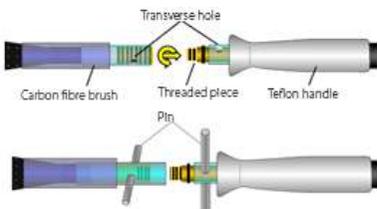
Caution: Select the correct mains voltage!

- Connect the earth terminal directly to the workpiece.
- Select a suitable carbon fibre brush, XL.
- And connect it to the M10 threaded connector on the Teflon handle.
- Tighten firmly to prevent arcing spots due to the very high current!

- The outer Teflon sleeve on the brush can be shifted to compensate for the wear of the fibres due to burning off.
- Adjust the sleeve to ensure that the carbon fibres protrude by a maximum of 10 mm in order to bundle the soft fibres and achieve maximum cleaning performance!

- Select an electrolyte suitable for the specific working material.
- Use CLEANER electrolyte to clean slightly oxidised TIG weld seams.
- Use SUPERCLEANER electrolyte to clean severely oxidised TIG weld seams.
- Use POLISHER electrolyte to polish weld seams or surfaces.
- **Suggestion:** POLISHER is more viscous and steams less due to its lower water content!

- Open the electrolyte can, pierce the aluminium seal with a suitable object if necessary, 2 small holes are sufficient.
- Carefully fill the wide-neck container up to the lower mark with electrolyte, max. 2 cm.
- Do not forget to close the containers securely after work or during breaks.



Cleaning/polishing with a brush

- Mains switch to "ON".
- Set the rotary switch to the Cleaning or Polishing.

Note: Press the thermal fuse above the LED if the green check LED does not light up although the mains switch is set to ON and the selection switch is set to Cleaning or Polishing!

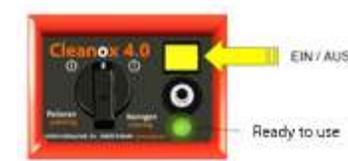
- Dip the brush into the wide-neck container and allow excess electrolyte to drip off.
- Then brush as vertical as possible at an angle of approx. 90° across the workpiece surface.

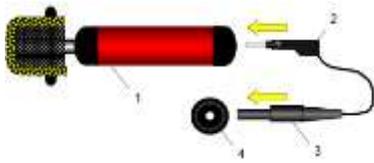
Note: Clean the thread between the brush and the handle if the green LED is on but the device does not work!

- **Suggestion:** The arcs that are essential for cleaning are only created at the tips of the fibres!
- Work by performing a slow, circular movement.
- **Caution:** Dip the brush frequently into the wide-neck container and stir a few times to clean the fibres and cool the electrode!
- **Note:** New brushes must first be worked in and initially foam and exude a moderate odour!
- **Caution:** The workpiece surface and brush get very hot, approx. 200°C; **risk of burning!**
- Thereafter, thoroughly clean the surface with tap water using the spray bottle enclosed.
- **Suggestion:** Rinsing should be performed soon after cleaning, whilst the surface is still hot, so that the weld seam can dry without staining!
- **Proceed with polishing in the same way as with cleaning!**

Caution: Wear appropriate protective clothing

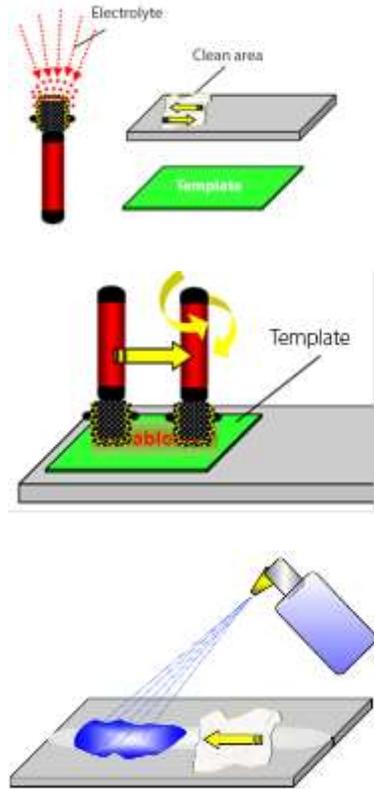
- Protective goggles (closed at the sides).
- Gloves (CAT 3).
- Apron or lab coat.
- Immediately remove electrolyte residues from the workplace and floor to prevent staining.
- Carefully reseal the electrolyte container.
- The safety data sheets must always be adhered to.





Marking (Marking kit available as an option EP-02-050)

- All electrically conductive surfaces can be marked in bright or dark colour; aluminium can only be marked in bright colour!
- You can produce your own short-term templates using label printers and appropriate 18, 24 or 36 mm marking strips of any length.
- We will gladly produce high-quality long-term templates for you at short notice.
- Select the appropriate marking electrolyte from our wide range.
- Attach a white piece of felt to the electrode on the marking handle and fasten it with an O-ring.
- Drip some electrolyte onto the felt until it is fully wetted.
- Set the switch on the device to Cleaning for dark marking and to Polishing for bright marking.
- **Attention:** use the thin cable provided!
- Long-term templates can be reused up to 5,000 times
- We can provide you with individual templates by using imaging methods on reproducible samples.
- Wet the template with water or electrolyte, so that it can be more easily fastened on the work piece.
- Slowly move the marking handle over the template while applying gentle pressure for 1-3 seconds.
- Proceed in the same way with short-term templates.
- Caution: do not move across the template edges, as this will blacken the surface.
- Lift the template from the work piece and thoroughly rinse it with water or wipe it with Neutralyt.
- Rub dry using paper towels.
- Thoroughly clean the templates with water.



These brief instructions do not replace EC-compliant operating instructions!

It is essential to take into account our safety data sheets regarding the electrolytes!

Version dated December 2015

Safety information

The devices are approved for work at increased electrical risk **S** and operate at a maximum of 12 V~ Volt. Nevertheless, electrical current may be felt if the electrode is touched while in contact with the workpiece. However, this does not pose a risk and can be avoided by wearing gloves.

Brief instructions

Electrochemical cleaning, polishing and dark marking with a large carbon fibre brush

Cleanox 4.0



Service-Hotline: +49-1715450200



Reuter GmbH & Co. KG
Schimmelbuschstr. 9e
D – 40699 Erkrath, Germany