

# EL-Cut

High precision cutting pliers

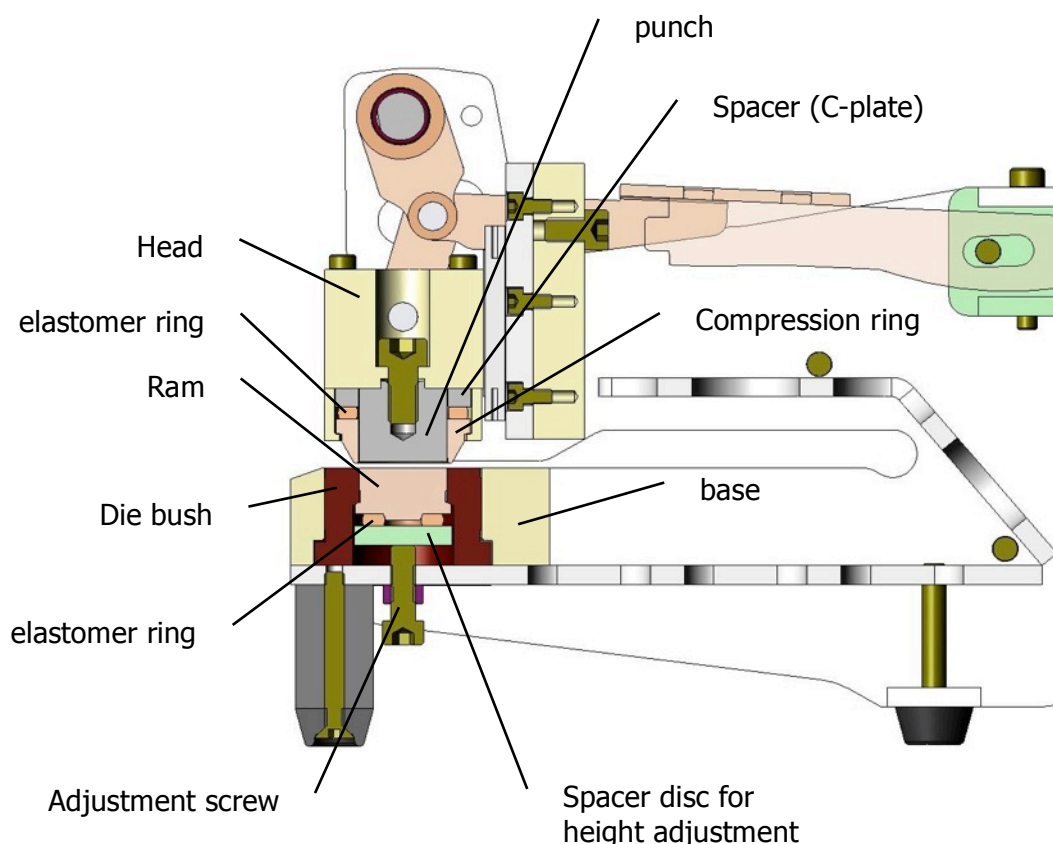


# User Manual

Release: 1.0

2010-05-17

# Product Description



The EL-CUT high precision cutting pliers have been specifically developed to punch 18 mm diameter electrodes for use with any member of the ECC test cell series. For trouble-free operation, however, the following rules and limitations have to be strictly obeyed.

- The overall thickness of the electrode films/foils to be punched must not exceed 0.3 mm. **NOTE:** Using thicker foils may result into irreversible damage of the pliers
- No other metals than copper and aluminium must be used as the current collector foils of the electrodes.
- Do not punch lithium metal foil with the pliers.
- Do not punch electrode films wetted with electrolyte, or any sticky films
- After use, as necessary, clean the punch and the die with alcohol and compressed air. **NOTE:** Punch and die are made of hardened steel with limited stability against corrosion. Don't expose to corrosive atmosphere. Don't leave wetted.
- For punching, place the electrode film into the punching slit with electrode coating pointing downwards.
- Actuate the pliers with gentle force only. In case of blockage, the pliers have to be unlocked by pushing the small lever (red arrow) upwards while slightly

compressing the two handles. We recommend exercising this emergency procedure first without an electrode film.



# Technical Support

Technical support for this product is exclusively handled by EL-Cell GmbH.  
The following procedure must be followed when the ECC CUT is returned to EL-Cell GmbH for repair:

1. Send an e-mail to [info@el-cell.com](mailto:info@el-cell.com) to obtain a return authorization number
2. Describe in detail what is wrong.
3. Include a contact name, address, telephone number, and email address.
4. Return the equipment to

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