

Precentered Endothelial Punch, Universal 6-11 mm Trephine

Instructions for Use

Ophthalmic Surgical Instrument

Intended use

Mechanical punch for cutting a donor corneal button from the endothelial side of a corneoscleral rim during donor tissue preparation for keratoplasty procedures.

Intended users

For use by trained healthcare professionals (corneal surgeons and eye bank technicians). Follow your facility's protocols and applicable regulations.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.
- Trephine blades are extremely sharp. Handle with care and keep fingers clear of the cutting path.
- Sterilize the punch and all components before each use. Use only sterile trephines.
- Inspect the punch, spring mechanism, plungers and teflon block before each use. Do not use if damaged, misaligned or if the spring does not recoil smoothly.
- Use a new or sharp trephine for each donor to ensure a clean cut.
- Trephine size, centering of tissue and technique are at the surgeon's judgment and according to clinical protocol.
- Handle donor tissue according to eye bank and facility tissue-handling protocols.

2. Package contents

- Endothelial punch
- 2 plungers

Check contents on receipt. Report missing or damaged items to sales@scimedstore.com within 48 hours of delivery.

3. Specifications

Trephine compatibility	Universal, accepts trephines 6-11 mm diameter
Centering	Precentered mechanism aligns trephine and teflon block for all trephine sizes
Retraction	Spring recoil retracts trephine after cut
Plungers	2 per set
Sterilization	Autoclavable (134°C standard cycle) or EO gas

4. Unpacking and setup

- 1 Confirm the punch and plungers have been cleaned and sterilized.
- 2 Under aseptic conditions, select the trephine size according to clinical protocol and the surgeon's judgment.
- 3 Insert the trephine into the punch and secure it as shown on the instrument.
- 4 Check that the trephine is centered over the teflon block and that the spring retracts it fully.
- 5 Place the punch on a stable sterile surface.

5. Operation

Punching the donor button

- 1 Place the corneoscleral rim endothelial side up on the teflon block, according to your tissue preparation protocol.
- 2 Check that the tissue is centered on the block.
- 3 Lower the trephine assembly onto the tissue.

- 4 Press the plunger with a single smooth, firm motion to cut through the tissue.
- 5 Release the plunger and allow the spring to retract the trephine.
- 6 Inspect the cut for completeness before removing the button.
- 7 Lift the donor button carefully with appropriate instruments and handle it per protocol.

After use

- 1 Remove the trephine carefully and dispose of single-use trephines in a sharps container.
- 2 Begin cleaning the punch promptly before tissue residue dries.

6. Cleaning and disinfection

- Disassemble removable parts (trephine, plungers) as far as the design allows.
- Rinse with sterile or distilled water to remove tissue and fluids immediately after use.
- Clean with a mild, neutral-pH instrument detergent and a soft brush, paying attention to the spring and centering mechanism.
- Rinse thoroughly and dry completely.
- Sterilize by autoclave (134°C standard cycle) or EO gas according to your facility's sterilization protocol.

7. Maintenance and storage

- Store clean, dry and sterile-packaged in a protective tray or case.
- Check the spring recoil and centering action regularly.
- Inspect the teflon block for cuts or wear and replace if the surface is damaged.
- Replace plungers or spring assembly if worn or damaged.

8. Troubleshooting

Problem	Likely cause	What to do
Incomplete cut	Dull trephine or insufficient, uneven pressure	Use a new sharp trephine and press with a single firm, even motion.
Button off center	Tissue not centered on the block	Re-center the tissue before lowering the trephine.
Trephine does not retract	Spring mechanism obstructed or worn	Stop use; clean the mechanism and replace the spring assembly if needed.
Trephine loose in punch	Trephine not seated correctly	Remove and re-seat the trephine; check size is within 6-11 mm.
Irregular cut edge	Damaged teflon block surface	Replace the teflon block.

9. Disposal

- Dispose of used trephines in a sharps container.
- Dispose of donor tissue waste according to biohazard and tissue waste protocols.

- Clean and sterilize the instrument before disposal and recycle as metal according to local regulations.

10. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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