



Use and Care Instructions

Mastel Arcuate Corneal Compass (MACC)



About:

The Mastel Arcuate Corneal Compass is used in conjunction with an Elite II micrometer scalpel and is designed to assist in the creation of perfect arcuate Astigmatic Keratotomies (AK's). The MACC does this by removing all of the variables related to inherent degrees of freedom associated with free hand AK construction.

The Mastel Arcuate Corneal Compass guides your arcuate cuts. Limiting the degrees of freedom it makes your incisions more consistent, safe, effective, and beautiful.

Using proven ultra-thin diamond technology and the NAPA nomogram, this system will produce consistent results for corneal astigmatism in a range of up to two diopters. This system standardizes the optical zone at the 10-millimeter diameter and feature highly tuned fixation teeth and aesthetically fine diamond signature.

Product Application:

- Astigmatic Keratotomy (AK)
- Limbal Relaxing Incisions (LRI)
- Peripheral Corneal Relaxing Incisions (PCRI)

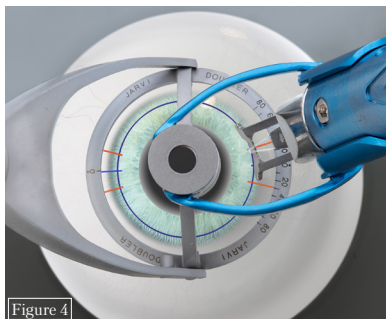
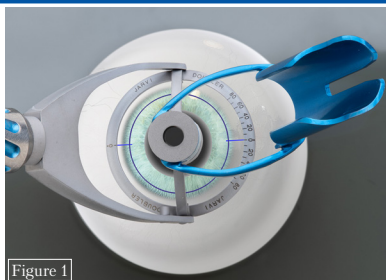
Jarvi Ring Pattern Measurement Info:

The Jarvi scale on this ring has been doubled for ease of use. Marks are every 5° but numbered as 10°. This means that 20° would be 4 increments or from 20° to 20°.



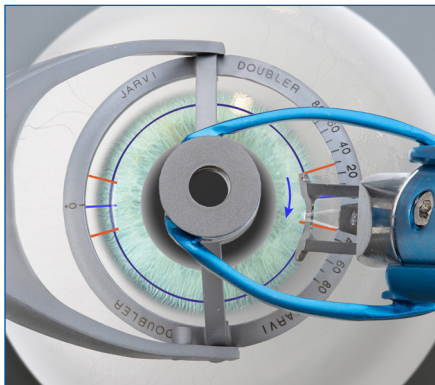
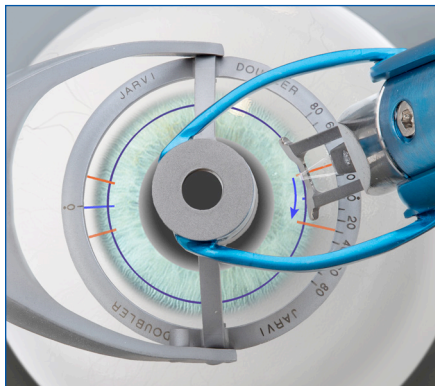
Surgical Use:

1. Place the ring directly on the cornea. Typically, the 0° reference on the ring is aligned with your pre-marks at the steep meridian and the ring is centered on the visual axis. (Figure 1).
2. A Mastel Elite II Diamond Scalpel is inserted into the rotatable saddle. A pin on the back of your Elite II scalpel will slide into the groove in the back of the saddle (Figure 2 & 3). Older versions of the Elite II can be retrofitted to include this pin.
3. Once the ring is lined up with your steep axis, a practice “pass” with the diamond retracted is recommended.
 - a. Insert scalpel into the saddle until the footplate nears the cornea.
 - b. Glide the scalpel and compass through the intended arc. For a 30° arc, glide from 30 to 30 (Figure 4 orange).
 - c. Remove scalpel from saddle.



Surgical Use Continued:

4. Set diamond to desired incision depth.
5. After returning the saddle to its starting position partially insert the scalpel adjusting the saddle as needed to position the blade.
6. Once desired position is attained lower the scalpel until the footplate touches the cornea.
7. Perform the arcuate cut in a slow and controlled manner repeating practice pass motion.
8. Back the blade up slightly to preserve wound margins then remove the scalpel.
9. Rotate the Compass 180° and repeat on the opposite side of the eye for a paired arcuate.



For a surgical video demonstration, please visit:

<https://www.youtube.com/watch?v=Pl34OlbTuFE>

or

scan the following QR code:

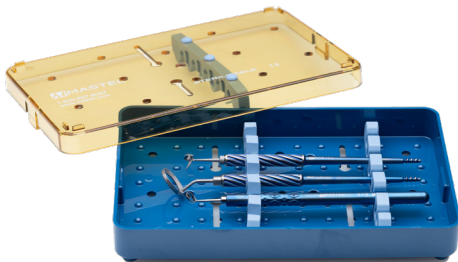


Use And Care:

After use, adequate cleaning and disinfection are required to maintain the MACC's continued proper function.

Instruments should be sterilized between cases.

- Optimally, the MACC is stored and sterilized in its designated tray. Its tray may be run along with other surgical instruments in the autoclave. Standard facility cleaning procedures apply.
- When cleaning and disinfecting manually, avoid use of metal brushes, scouring agents or other aggressive methods. Ultrasonic cleaning may also be used if desired.
- The use of distilled or deionized water for all reprocessing cycles (including precleaning) is recommended.
- Products must be stored appropriately during sterilization, i.e. not on top of one another, and fixed in place with sterilization strips or plates.
- Sterilized products should be stored in a dry environment.



Sterilization:

The times and temperatures specified are minimum requirements. If, for procedural reasons, the values have to be lowered, the user must validate these. It is possible to exceed the time and temperature specifications. However, longer sterilization times and higher temperatures stress the materials, causing them to age prematurely.

Only products that have been cleaned and disinfected can be sterilized.

General sterilization criteria are listed below. Download complete *“Packaging and Sterilizing Instructions”* from the link on the following page.

Prevacuum high temperature steam sterilizer

- Four minutes at 132°C/134°C (270°F/273°F), or
- Twenty minutes at 121°C (250°F) wrapped





Gravity displacement autoclave

- Five minutes at 132°C / 134°C (270°F / 273°F), or
- Twenty minutes at 121°C (250°F) unwrapped
- Thirty minutes at 121°C (250°F) wrapped

Statim® steam sterilizer with radiant heat drying

- Three and one half minutes at 135°C (275°F) for unwrapped, or
- Ten minutes at 135°C (275°F) wrapped

Sterilization Continued:

-  The use of gravity displacement process must be approved by means of additional validation (longer sterilization times may be necessary).
-  A steam sterilizer in accordance with DIN EN 13060 and DIN EN 285 and validated in accordance with ISO 17665 (valid selection and product-specific performance qualification)
-  Maximum sterilization temperature 137°C (279°F) (plus tolerance range in accordance with ISO 17665)
-  Drying times as recommended by the sterilizer manufacturer

The manufacturer will accept no liability for other sterilization processes (e.g., hot-air, ethylene oxide, formaldehyde, radiation or low temperature plasma sterilization).

Should these be selected, validate them in accordance with the applicable standards DIN EN ISO 14937/ANSI AAMI ISO 14937 and/or process-specific standards, taking into account the specific geometry of the product, and be able to provide proof of the suitability and effectiveness of the process (including analysis of the sterilizing agent residue if applicable).

Please Visit: www.mastel.com/faq/uci/

To download relevant PDF's including
Validation Documents!

These files contain complete information on **packaging**,
sterilizing, and **preserving** the life of your instrument.

Product Numbers:

25.277.0001

Bores Handle

25.277.0002

Thornton Handle



and its team of craftsmen, engineers and service representatives strive to provide you with the very best in ophthalmic surgical instruments.

Our products are delivered to you with pride.

If, for any reason, you need further assistance, please call one of our service representatives. They will provide the help you seek.

Thank You!

Certifications & Licenses:

Mastel is FDA registered.

Certifications:

- ISO 13485:2016 (MDSAP)

Licenses:

- Health Canada

Product numbers were updated
3/1/2022. For more information:
please visit mastel.com/sku-update/



2843 Samco Rd. Ste. A
Rapid City, SD 57702

www.mastel.com

Contact:

Main 605-341-4595
Toll Free 800-657-8057
Fax 605-343-3631
Email sales@mastel.com