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# Use and Care Instructions

## Corneal Markers

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## About:

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All Mastel markers feature highly finished, sharp edges that make fine, pristine marks on the cornea.

All markers allow the choice of either the Bores style handle or the more traditional Thornton style handle.

### Bores



### Thornton



## Product Application:

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Markers create paired radial or single marks on the cornea for:

- Astigmatic Keratotomy – AK
- Radial Keratotomy – RK
- LASIK
- Corneal Relaxing Incisions - CRI
- Limbal Relaxing Incisions - LRI
- Peripheral Corneal Relaxing Incisions - PCRI
- Toric Intraocular Lenses - Toric IOL's

## Configurations:

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### Radial Markers:

Bores 2 Ray



Solomon Davis 3 Ray



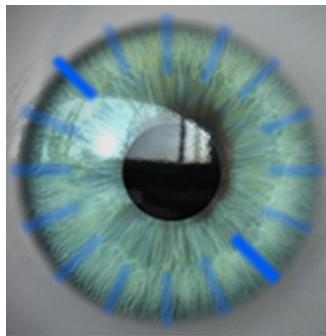
### Single Marker:

Wright Hook



## Surgical Use:

These markers are typically used in conjunction with a Mastel fixation ring (See Left Below). The marker is placed directly on the cornea to delineate your specified meridian. Markers can be used with or without ink.



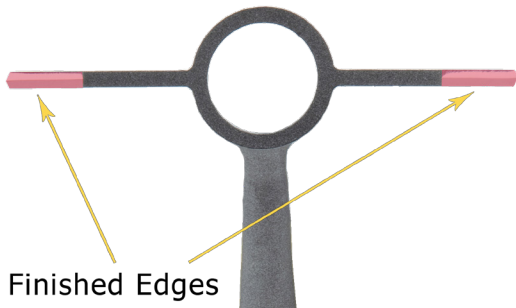
Paired radial marks define cardinal references, steep meridians and arcuate end points.

### For use with ink:

Wipe ink pen on both sides of each fin (4 sides total). This tends to provide a sharper, more precise mark. Ink pads often over-ink causing the ink to bleed on the wet corneal surface, leaving less precise marks.

### For use without ink:

Due to the marker's highly finished, sharp edges, no ink is necessary (See Right). The marker is placed directly on the cornea, and gently pressed for about five seconds. Marks can be seen under magnification and can be revealed by drying the eye.



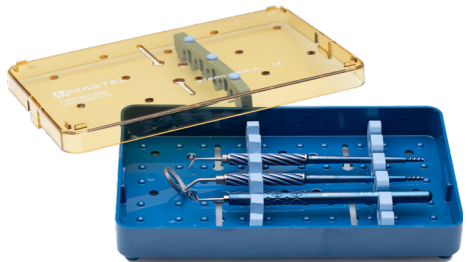
## Use And Care:

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

Instruments should be sterilized between cases.

- Optimally, Mastel markers are stored and sterilized in their designated tray. Their 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:

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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:

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-  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/](http://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:

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### Radial Markers

22.102.2001  
22.102.2002  
22.103.3001  
22.103.3002

### Single Markers

26.115.1201  
26.115.1202

\*Bores Handles end with 1  
Thornton Handles end with 2

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**MĀSTEL**

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/](http://mastel.com/sku-update/)



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