Welcome

Mastel Precision has been serving ophthalmology exclusively for four decades. Time spent in the operating room allows us to better understand your needs and to develop superior products you require for improving patient care.

We are committed to providing innovative, quality, hand crafted surgical instruments that you can rely upon with the utmost confidence.

We are proud to say Made in America since – 1981

Thank you from all of us at Mastel for your many decades of continued support.

Douglas J. Mastel, CEO and Founder
The Mastel Commitment

If you ever experience a problem with one of our instruments not related to use, we will repair or replace it at no charge.

Welcome & Commitment ...........................................2-3
Ophthalmic Diamond Scalps .................................4-5
President Diamond Scalpel Series .........................6-7
Elite II Diamond Scalpel Series ...............................8-9
PHD II Diamond Scalpel Series ...............................10-11
Fixation ..................................................................12-13
Astigmatism Marking/Alignment ..............................14-15
Pre-Operative Marking ............................................16-17
Corneal Markers ......................................................18-19
Visual Aids .............................................................20-21
Repair & Upgrade Services .........................................22
General Information .................................................23
Ophthalmic Diamond Scalpels

Since Nineteen Eighty One,
Mastel has set the standard for minimally invasive diamond scalpels.

Tens of thousands sold with many original scalpels still serving today.
President Series Diamond Scalpel

Our absolutely robust, all titanium freehand diamond platform.

The President

The President handle is manufactured in America from medical grade titanium alloy. Because there are no springs to fail in our mechanism, the diamond stylus is fixed to the body at the distal end, so there is no free play between your hands and the blade.
**Gimbel SuperStealth Trapezoids**  
Designed with Howard V. Gimbel, MD, Calgary, Alberta, Canada.

**Gimbel UltraStealth**  
Designed with Howard V. Gimbel, MD, Calgary, Alberta, Canada.

**Meister TriFacet**  
Designed with Richard Meister, MD, Sacramento, CA, USA.

**Stealth UltraLance**  
This diamond is our finest parallel-sided 1.0mm paracentesis diamond.

**Tanto**  
Designed with Jeshal Patel, MD, and Robert Stegmann, MD, Johannesburg, South Africa.

**Ahmed SuperPentiAhm**  
Designed with Iqbal 'Ike' K. Ahmed, MD, Toronto, Ontario, Canada.

**Fine Triamond**  
Designed with I. Howard Fine, MD, Eugene, Oregon, USA.

**Fine ParaTrap**  
Designed with I. Howard Fine, MD, Eugene, Oregon, USA.

**John Groover**  
Designed with Maurice John, MD, Jeffersonville, Indiana, USA.

**Nichamin Classic 600**  
Designed by Louis D. 'Skip' Nichamin, MD, Brookville, Pennsylvania, USA.

**Stegmann MicroCrescent**  
Designed with Robert Stegmann, MD, Johannesburg, South Africa.

**Ahmed SuperCrescent**  
Designed with Iqbal 'Ike' K. Ahmed, MD, Toronto, Ontario, Canada.

**Zip Blade (PK)**  
Designed with Richard Lehrer, MD, Alliance, Ohio, USA.
Elite II Micrometer Series Diamond Scalpel

The ultimate in controlled-depth precision for corneal relaxing incisions.

The Elite II
Mastel Arcuate Corneal Compass “MACC”

Reproducible, consistent Arcuate Astigmatic Keratotomies at a 10mm diameter optical zone.

The Elite II and the PHD II are enhanced with an alignment pin to accommodate the MACC System.

Fine Triamond with Inset Profile Footplate
p# SMIP FT0312

Stegmann MicroCrescent with Inset Profile Footplate
p# SMIP SH

Fine Triamond with Nichamin Profile Footplate
p# SMPR FT0312

Fine Triamond with Corneal View (CV) Footplate
p# SMCV FT0312

Mastel Arcuate Corneal Compass “MACC”
p# RSBG AC1500J
PHD II Step Series Diamond Scalpel

*The ‘Swiss Army Diamond’ of ophthalmic scalpels.*

The PHD II

*Simple, quick actuation by calibrated steps. Includes full extension for free-hand surgery.*
Ahmed Angulated PHD II

Equally at home in the operating room or at the slit-lamp.
Thornton Fixation Rings & Singer Triport

**Fine-Thornton Ring (FTR)**

The modification of the Thornton ring by I. Howard Fine, MD, involved removing a segment from the original fixation ring to allow access for phaco incisions.

*The original Thornton Fixation Rings were designed by...*

Spencer P. Thornton, MD, Nashville, TN, USA.
**Singer Triport**

Performs like an extension of your fingers. It provides delicate fixation on the conjunctiva or superb fixation with the finger tip in the paracentesis.

*Designed with Jack A. Singer, MD, Randolph, Vermont, USA.*

*Handle option usually designated by third or fourth letter in part number... *(B) Bores (T) Thornton*
Astigmatism Marking/Alignment

Osher/Nichamin Ring

Our latest laser-etched numerical ring features low profile access with enhanced visualization of the surgical limbus.

Designed with Robert Osher, MD, and Louis D. ‘Skip’ Nichamin, MD

Cionni Ring

This low profile design incorporates dual scales for Toric Alignment as well as an arcuate guide and length control for Limbal Relaxing Incisions (LRI).

Designed with Robert Cionni, MD, Salt Lake City, Utah, USA.
Olson Ring ~ # RFBG OG1215

The first arcuate astigmatic keratotomy guide ring for peripheral corneal relaxing incisions (LRI at 10mm optical zone).

*Designed with Randall Olson, MD,
Salt Lake City, Utah, USA.

Gimbel Mendez Ring

Introduced in 2007, this has become the gold standard for Toric lens marking during the procedure. Excimer laser etching upon an advanced metallurgical coating provides 5° discrimination, meaning interpolation to within a degree or two is possible in skilled hands.

*Designed with Howard V. Gimbel, MD,
Calgary, Alberta, Canada.

Handles shown actual size

*Bored Handle

*Thornton Handle

*Handle option usually designated by third or fourth letter in part number...
(B) Bore (T) Thornton
Pre-Operative Marking

**Davis Plumb Bob Series**
*Davis MD OneStep*

This is the ultimate premarking solution. By rotating the head to the steep ‘primary’ corneal meridian, these references will be the final positioning of the Toric lens (or AK) without additional intraoperative marking.

**Pre-Operative**

Astigmatism management begins with accurate premarking. Our systematic approach features lines rather than dots with the option of going “inkless”.

**Bakewell Bubble Level**

Our most popular and original pre-marker. Detachable bubble allows sterilization or replacement. Available in Bakewell two ray (3&9) or Solomon three ray (3,6 & 9) marking heads.

*Designed with Brock K. Bakewell, MD,
Tucson, Arizona, USA.*
Solomon Davis Plumb Bob 3 Ray
Davis Plumb Bob 4 Ray

Elegant 3, 6, 9 (Solomon version) and 12 (Davis, original version) references in the peripheral epithelium. Using lines, the degree of precision indexed to our degree rings provides unparalleled accuracy.

Designed by Andrew P. Davis, MD, Bellevue, Washington, USA.
Corneal Markers

**Bores Two-Ray and Three-Ray Corneal Meridian Marker**

The perfect tool for marking the steep corneal meridian prior to implanting the Toric IOL. This was the original solution used in conjunction with the classic Mendez ring.

*Designed with Leo D. Bores, MD, Scottsdale, Arizona, USA.*
Optical Zone Markers

When capsulorhexis size and shape matter, this is the first tool a surgeon should utilize. The faint “inkless” outline helps form a concentric, properly sized capsulorhexis.

We feature a complete line of Optical Zone markers for PRK alcohol wells and sizes to fit all corneal procedures today. All OZM markers are available with or without crosshairs.

*Handle option usually designated by third or fourth letter in part number...
(B) Bores (T) Thornton

Handles shown actual size

*Bores Handle
*Thornton Handle
Visual Aids

**Illuminating Surgical Keratoscope (ISK)**

Keep your patient comfortably looking in the right direction with the blinking, red fixation light (Jones Steady Pulse) when performing capsulorhexis or astigmatic keratotomies and premium IOL positioning. The qualitative keratoscopic mires provide high quality, hands-free illuminating astigmatism assessment. Also works superbly well for corneal procedures such as PK and DALK.
Zero Parallax Visual Axis Glasses (patented)

Ensures that the patient is looking directly at and aligned to the surgeon's dominate eye during pre-marking. Provides a blinking fixation target, illumination with magnification. Fold-in-loop allows surgeon to adjust Davis MD OneStep at patient bedside.

Freeman FogFree

During surgery, the last thing you need is to compromise visualization by condensation of the oculars because of your mask. Simply warming the optics to near body temperature eliminates fogging.

Designed with James F. Freeman, MD, Memphis, Tennessee, USA.

“One of the most significant frustrations I experience during surgery is the frequent occurrence of ocular fogging. Since adding the Freeman FogFree system this frustration has disappeared completely. The FogFree System is one of the best investments I have ever made.”

Robert Cioni, MD, Salt Lake City, Utah, USA.
Repair & Upgrade Services

Repair Services

We welcome instruments of any brand. All instruments need an inspection/evaluation before estimates or quotes can be provided.

Diamond Scalpel Repair

Diamond repair is our specialty service. Our craftsmen have decades of experience repairing and evaluating scalpels from virtually every manufacturer. Let our knowledgeable staff inspect and clean, remount, rehone, or replace your diamond tips to make them like new again!

We recommend sending in your diamond at least once a year to check diamond holding epoxy, diamond edge and calibration.

All Other Repair Services

Experienced craftsmen perform routine and complex enhancements.

All Instruments (non-diamonds)
- Cleaning | Inspection

Forceps & Microforceps
- Realigning | Texturizing

Phaco Tips
- Sharpening | Polishing
*Alcon and single use tips excluded*

I/A Tips
- Polishing (includes port) | Polishing & Texturing

Rings
- Straighten & True Ring | Recondition & New Epoxy

Wire Instruments
- Cleaning | Inspection | Polishing

Optical Zone Markers
- Straightening | Recondition | Crosshair Replacement

Bakewell Bubble Level
- Straighten | Recondition | Bubble Bracket Upgrade

Davis MD OneStep
- Crosshair replacement | Straighten | Recondition

Davis Plumb Bob Radials
- Straighten | Recondition