Thank you for your interest in our products. In this brochure you’ll find information regarding:

1. MST Malyugin Ring®
   • 6.25mm Ring
   • 7.0mm Ring
   • Osher/Malyugin Ring Manipulator

2. MST Iris Hooks™

3. MST Capsule Retractors™

4. MST Phaco Tips
   • Dewey Radius™
   • No ABS
   • MST/Packard 0.7

5. MST Single Use and Durable Forceps and Scissors
   • Single use and durable Packer/Chang IOL Cutters
   • Single use and durable Ahmed Micro-Graspers
   • Seibel Capsulorhexis Forceps with ViewPort™

6. MST I/A Systems
   • Allegro™ single use silicone I/A system
   • MST Barrett™ I/A
   • Soft I/A®
   • InterTip I/A
   • Duet® BiManual
   • Maestro™ I/A Handpiece
The MST Malyugin Ring is provided sterile, with a disposable injector for each ring.

Reference:
1. David F. Chang, MD, Use of Malyugin pupil expansion device for intraoperative floppy-iris syndrome. Results in 30 consecutive cases. JCRS; 348(3)-4(4) (May 2008)

There was a time, when expanding pupils meant using time-consuming, burdensome, and/or bulky devices.

Times have changed...

The MST Malyugin Ring is low profile, easy to use, fits through a 2.2mm incision, and is provided complete with an ergonomic disposable injector in every package.

The Malyugin Ring pupil expander.
Only from MST.
Provided sterile, 6 per box. (Includes six packages of one each: Malyugin Rings, Ring Holders and Ring Injectors)

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.25mm MST Malyugin Ring</td>
<td>MAL-0001</td>
</tr>
<tr>
<td>7.0mm MST Malyugin Ring</td>
<td>MAL-0002</td>
</tr>
<tr>
<td>Osher/Malyugin Ring Manipulator</td>
<td>MAL-0003</td>
</tr>
</tbody>
</table>

Safety.

Shouldn’t what’s being placed within the pupil margin be gentle... maybe even kind?

As we all know, when we distribute force across more points of contact, each point puts less pressure on what it’s in apposition to. For our purposes, clearly we are talking about fragile iris tissue.

Interestingly, many people that we talk to think that the Malyugin Ring® has four points of contact with iris, when, in fact, it has 8 points, each taking up 1/8th the outward pressure to ensure your patients have less risk of iris damage than ordinary devices.

8 points of smooth & gentle iris contact.
Only from MST.
It’s kind of curious.

Iris Hooks have been around a long time. Lots of versions, all basically the same. One copy cat after another...

If your choice of pupil expansion is an Iris Hook you may be wondering:

“Why hasn’t anyone made these things better? Why are iris hooks hard to get onto the pupil margin, impale the posterior side of the iris, and scratch my patient’s lid?”

We thought that too, and believe that we have designed something better. MST Iris Hooks are designed to easily engage the pupil margin, and for the posterior side to sit parallel to iris so-as not to impale it.

Think of them fitting like a hand in glove around iris, rather than trying to poke through it. As well, MST Iris Hooks are designed to provide lateral stability to further ease placement and have a bent proximal end so-as not to scratch your patient’s lid.

The MST Iris Hooks, their advantages are easy to grasp.
We've watched all kinds of instruments used to place and remove Malyugin Ring® scrolls. Some good...some not so good.

So when Robert Osher, M.D. approached us regarding the need for a better/safer approach, we agreed to design and make what we hope you will find to be the best manipulator made for the ring.

The Osher/Malyugin Ring Manipulator is reusable, feels great in your hand, and will help you have a great experience.

Only from MST.

*one per facility
Consider Them Your Personal Support Group

When we looked at and talked to people about what they liked and disliked about capsule retractors, we kept hearing the same thing, "I like the support they give, but the amount of focal pressure on the capsulorhexis margin is unsettling."

So... we set out to design a new kind of capsule retractor: one that pulls the capsule and distributes force in the equator, one that if there is capsulorhexis margin touch, has a broader area of contact, one that is easy to direct where you want it, one that is different.

MST Capsule Retractors. Only from MST.
Provided sterile. 6 packages of 4 MST Capsule Retractors per box.

**Catalog Numbers**

- **Catalog Number:** MCR-0001

**Description:**

MST Capsule Retractors

- The retractors are held in place by a silicone bar and are gripped by slots in the bar.
- There are 4 retractors in each package, six packages in a box.
- The Tyvek lid is pulled back and the tray turned upside down. The bar will drop out.
- The bar is picked up and squeezed as shown to release its grip on the retractors.

**Placement and Removal**

**Placement**

- Place through a 0.8 or larger paracentesis.
- If needed slip the working end under the capsulorhexis.
- Move the silicone stopper forward and into place.

**Removal**

- Move the silicone stopper back and then the entire MST Capsule Retractor centrally to disengage.
- Remove the silicone stopper.
- Remove from the main incision using forceps and cutting the tail end off if necessary.
The Long And The Short Of MST Phaco Tips

MST designs and manufactures, to our exacting specifications, unique phaco tips for Alcon, AMO and Bausch + Lomb phaco machines. Before we release any phaco tip, we exhaustively test in an extensive battery of each new design to better ensure that you will have a great experience. As with all MST products, we guarantee that you’ll love their quality & performance. If you don’t, return them within 30 days and receive your money back with no questions asked.

From our Dewey Radius™, No ABS, MicroCoaxial, and the MST/Packard 0.7 phaco tips we bring you the largest variety of features on the largest variety of phaco machines in the world.
MST makes many Dewey Radius™ Phaco tips that are designed to be compatible with the leading phaco systems. For a complete listing of our offering please see the pages in the back of this brochure or visit our web site.

Steve Dewey, M.D. had a thought...

“What if you could make a phaco tip that was less likely to break capsule? How would that change cataract and refractive lens exchange surgery?"

The answer was, a lot.

Next, the combination of his idea and MST's innovative technology, has produced a phaco tip that, instead of being sharp, has radiused edges to help protect both capsule and as an added benefit, iris, yet, performs like a sharp-edged phaco tip.

The Dewey Radius™ is available in the most popular styles for the most popular machines.

The Dewey Radius phaco tip. It takes the edge off. Only from MST.
MST makes many Phaco tips that are designed to be compatible with the Infiniti® with OZil®. For a complete listing of our offering please see the pages in the back of this brochure or visit our web site.

Reference:

Six to a box, no ABS® system.

Alcon, ABS, OZil, Legacy and Infiniti are trademarks of Alcon, Inc. MicroSurgical Technology is in no way affiliated with Alcon.

At MST, we believe that putting holes in phaco tips is a legacy of days gone by and compromises the performance of the phaco tip.

Toward that end, in a recently published study, the ABS® hole was shown to lack surge protection value on the Infiniti®, whereas it did provide significant surge protection on the Alcon® Legacy®.

As it turns out, modern machines such as the Infiniti®, use sophisticated software to cool the phaco tip and to provide meaningful surge protection. This modern approach to lens removal, enables MST to provide phaco tips that don’t leak, which we believe, provides fluidic advantages that you’ll find beneficial.
Packard 0.7

Think Small

How can a phaco tip this small be this efficient? You’ve got to try it to believe it.

In a recent study the MST Packard 0.7 phaco tip was shown to reduce CDE's in 4+ Cataracts when compared to the Mini-Flare® phaco tip.²

In addition, the small size of the MST Packard 0.7 when combined with our unique translucent sleeves provide you with a better view of structures and takes about 20% less area in the wound when compared to Mini-Flare brand phaco tips.

Reference:
2. G. Ratnarajan, MD,
How smart is intelligent phaco? A comparison of its efficiency with a mini-flared and non-flared Kelman phaco tip,
Presented at the 2010 ESCRS, Paris, France

Think Efficient
Think Great View
Think More Room

Designed for Alcon Infiniti, Bausch + Lomb® and AMO Systems

MST provides the Packard 0.7 Phaco tips in quite a number of differing configurations:

• Dewey Radius™
• Sharp
• Various bevels
• Straight as well as in various bends
• With sleeves for a wide range of incision sizes

(Provided sterile in a box containing 6 packages of one phaco tip and two associated sleeves)

For a complete listing of the Packard 0.7 Phaco tips that are available please see the pages in the back of this brochure or visit our web site.
Newly Single

Single Use Forceps and Scissors System
**MST Single Use Forceps and Scissors System**

Description: MST Duet Durable Handle for Single Use Heads

- Packer/Chang IOL Cutting Kit
  - (3 Packer/Chang IOL Cutters, 3 MST Micro-Holding Forceps)
  - 19g Packer/Chang IOL Cutters (6) — DFH-1012
  - 23g MST Micro-Holding Forceps (6) — DFH-1019
  - 25g Ahmed Micro-Graspers (6) — AMG-1001
  - 23g Hoffman/Ahmed Horizontal Straight Scissors, Curved Shaft (6) — DFH-1008
  - 23g Hoffman/Ahmed Horizontal Curved Scissors, Curved Shaft (6) — DFH-1033

---

**Catalog Numbers**

- MST Duet Durable Handle for Single Use Heads: DFH-1028
- Packer/Chang IOL Cutting Kit: PCK-1001
- 19g Packer/Chang IOL Cutters (6): DFH-1012
- 23g MST Micro-Holding Forceps (6): DFH-1019
- 25g Ahmed Micro-Graspers (6): AMG-1001
- 23g Hoffman/Ahmed Horizontal Straight Scissors, Curved Shaft (6): DFH-1008
- 23g Hoffman/Ahmed Horizontal Curved Scissors, Curved Shaft (6): DFH-1033
As We All Know, More Heads Are Better Than One...

When we first started designing forceps, we asked ourselves, "What would make forceps from MST special"?

The answer was to create a universal handle, and to make each removable "head" best in class. That way, we felt our customers could grow their systems as we grew our forceps heads offering.

Over time, we’ve created quite a few unique forceps including:

- The Seibel Capsulorhexis forceps with Viewport™
- The Ahmed Micro Anterior Segment Set™
- The Packer/Chang IOL Cutters™ (which cut even the hardest foldable acrylics)

We’ve even invented, and include for free, an entirely new way to protect and flush forceps to help keep your investment intact and clean. It’s called Swivel Guard™.

The MST Forceps System. Only from MST.

Swivel Guard is covered by patent 8,016,819
Consistent capsulorhexis size is crucial for optimal IOL function. Until now, guides for the creation of a desired rhexis size have proven elusive.

Toward the goal of helping you create a more precisely sized capsulorhexis, Barry Seibel, M.D. created two features for our capsulorhexis forceps that we hope you’ll find beneficial:

• The Rhexis Ruler,™ a tool to help you visualize, directly on the capsule, your desired rhexis size just prior to, and validate just after, its creation.
• The ViewPort,™ which is a window in the grasping tip for you to see where you are grasping.

The Seibel Capsulorhexis forceps features:

• Whole number millimeter marks just above their associated number.
• Half millimeter sizing as measured at the bottom of each number.
• The ability to "see through" the grasping tip.
<table>
<thead>
<tr>
<th>Heads</th>
<th>Catalog Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Catalog Number</td>
</tr>
<tr>
<td>Packer/Chang IOL Cutter Forceps Head</td>
<td>DFH-0012</td>
</tr>
<tr>
<td>23g MST Micro-holding Forceps</td>
<td>DFH-0019</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forceps Handles</th>
<th>Catalog Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Catalog Number</td>
</tr>
<tr>
<td>MST Touch™ Forceps Handle</td>
<td>DFH-0028</td>
</tr>
<tr>
<td>MST 360 Forceps Handle</td>
<td>DFH-0021</td>
</tr>
</tbody>
</table>

There was a time when extracting IOL’s meant using scissors or other devices that required a large wound and for the most part didn’t work particularly well.

Those days are over.

You’ll marvel at how easily these IOL cutters cut through even the hardest of foldable acrylic materials, and still easily cut through the softest of silicones. We suspect you’ll also appreciate how the design of these scissors lessens corneal distortion as compared to ordinary IOL cutters.

To make these scissors earn your trust and confidence, we invented an entirely new single piece scissors manufacturing method that results in exquisitely thin blades, and incredibly consistent sharpness.

The Packer/Chang IOL cutters. They just work. Only from MST.
### Ahmed MicroSet

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahemd MicroSet</td>
<td>ASK-0002</td>
</tr>
<tr>
<td>(Two MST Touch™ handles, two Ahmed Micro-Tying forceps, one 23g Hoffman/Ahmed horizontal scissors, curved shaft, one 23g Ahmed Micro-Graspers, curved shaft).</td>
<td></td>
</tr>
</tbody>
</table>

### Individually

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle</td>
<td></td>
</tr>
<tr>
<td>MST Touch™ handle</td>
<td>DFH-0028</td>
</tr>
</tbody>
</table>

### Heads

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>23g Ahmed Micro-Tying forceps head</td>
<td>DFH-0003</td>
</tr>
<tr>
<td>23g Hoffman/Ahmed horizontal Micro-Scissors, curved shaft</td>
<td>DFH-0008</td>
</tr>
<tr>
<td>23g Ahmed Micro-Graspers, curved shaft</td>
<td>DFH-0009</td>
</tr>
<tr>
<td>23g Hoffman/Ahmed horizontal Micro-Scissors, straight shaft</td>
<td>DFH-0010</td>
</tr>
</tbody>
</table>

Making complex Anterior Segment surgery a little easier, a little more controlled and enabling a little more versatility. That’s the goal of the Ahmed MicroSet.

The cannulas of this system are just the right length, just the right diameter, and with just the right curvatures. The handle feels great in your hand and closes smoothly and easily. The heads are completely universal, enabling you to grow your forceps system as you choose.

More important than our designing a platform just for Anterior Segment surgeons, was the input we received from Dr. Ahmed to create forceps and scissors that perform as you’ve always wanted. Micro-graspers work as a multifunction “utility” tool, 23g micro-scissors cut tissue with ease and can be inserted through a paracentesis, and vertical scissors have been found great use in cutting Acrysof® haptics that reside in the sulcus.¹

The Ahmed MicroSet. Control, Versatility... Grace. Only from MST.

Reference:
1. Fernando Trindade, MD, 2008 ASCRS Film Festival Grand Prize, “Watch The Haptic”. Acrysof is a trademark of Alcon, Inc.
7 Things You’ll Love About Allegro™ I/A

1. More capsule friendly than metal tips
2. Soft silicone capsule polish
3. Smooth/polished ports
4. Higher irrigation flow
5. Pre-Integrated & aligned sleeve
6. Gentle IOL positioning
7. Better subincisional access, less wound torque

Patent pending. 1. Data on file of comparative cadaver eye testing. Study done at University of Utah/Moran Eye Institute. (Zero of 10 posterior capsule breaks with Allegro, four of 10 with a metal I/A tip.)
Allegro™ Single Use Silicone I/A System

Incision | Description | Catalog Number
---|---|---
2.2-2.4 | Allegro Single Use Silicone I/A Tip System | AT-0001-R
 | Allegro Handpiece | AHP-0001

Better subincisional cortex removal

Irrigation ports proximal and risk occlusion in the wound in “Brand B”

Wound torque required for access in “Brand A”

Two bends result in better access

Note irrigation port location too

Gentle IOL rotation
Since the beginning, Coaxial I/A tip design has remained largely unchanged.

The problem is, while phaco technology, fluidics and technique have continually improved to increase safety and efficiency, I/A devices have remained essentially stuck in their original, decades old form.

Now, things are different.

Graham Barrett designed the Barrett I/A to provide more stable chambers and better control through the use of a small shaft diameter and larger distal end. These two unique features when combined with the Maestro handpiece result in more irrigation inflow and less irrigation competing with aspiration at the tip, which means you’ll realize a better, more controlled I/A procedure.

Maestro with Barrett I/A. Only from MST.
Maestro Handpiece

MST Maestro Handpiece  MHP-0001

Barrett I/A Tips for use with Maestro on Alcon® Systems

<table>
<thead>
<tr>
<th>Incision</th>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.6-2.85</td>
<td>MST Barrett, Straight Capsule Polish 0.3mm port, w/ 0.7 A1 purple sleeve</td>
<td>BRT-1028-P</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Bent Capsule Polish 0.3mm port, w/ 0.7 A1 purple sleeve</td>
<td>BRT-1029-P</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Curved Capsule Polish 0.3mm port, w/ 0.7 A1 purple sleeve</td>
<td>BRT-1030-P</td>
</tr>
<tr>
<td>2.2-2.5</td>
<td>MST Barrett, Straight Capsule Polish 0.3mm port, w/ 0.7 A1 red sleeve</td>
<td>BRT-1028-R</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Bent Capsule Polish 0.3mm port, w/ 0.7 A1 red sleeve</td>
<td>BRT-1029-R</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Curved Capsule Polish 0.3mm port, w/ 0.7 A1 red sleeve</td>
<td>BRT-1030-R</td>
</tr>
<tr>
<td>1.8-2.4</td>
<td>MST Barrett, Straight Capsule Polish 0.3mm port, w/ 0.7 A1 gold sleeve</td>
<td>BRT-1028-G</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Bent Capsule Polish 0.3mm port, w/ 0.7 A1 gold sleeve</td>
<td>BRT-1029-G</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Curved Capsule Polish 0.3mm port, w/ 0.7 A1 gold sleeve</td>
<td>BRT-1030-G</td>
</tr>
</tbody>
</table>

Barrett I/A Tip for use with Maestro on AMO® and B + L® Systems

<table>
<thead>
<tr>
<th>Incision</th>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.6-2.85</td>
<td>MST Barrett, Straight Capsule Polish 0.3mm port, w/ 0.7 blue sleeve</td>
<td>BRT-1033-B</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Bent Capsule Polish 0.3mm port, w/ 0.7 blue sleeve</td>
<td>BRT-1034-B</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Curved Capsule Polish 0.3mm port, w/ 0.7 blue sleeve</td>
<td>BRT-1035-B</td>
</tr>
<tr>
<td>2.4-2.5</td>
<td>MST Barrett, Straight Capsule Polish 0.3mm port, w/ 0.7 yellow sleeve</td>
<td>BRT-1033-Y</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Bent Capsule Polish 0.3mm port, w/ 0.7 yellow sleeve</td>
<td>BRT-1034-Y</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Curved Capsule Polish 0.3mm port, w/ 0.7 yellow sleeve</td>
<td>BRT-1035-Y</td>
</tr>
<tr>
<td>1.8-2.4</td>
<td>MST Barrett, Straight Capsule Polish 0.3mm port, w/ 0.7 gold sleeve</td>
<td>BRT-1033-G</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Bent Capsule Polish 0.3mm port, w/ 0.7 gold sleeve</td>
<td>BRT-1034-G</td>
</tr>
<tr>
<td></td>
<td>MST Barrett, Curved Capsule Polish 0.3mm port, w/ 0.7 gold sleeve</td>
<td>BRT-1035-G</td>
</tr>
</tbody>
</table>

Trademarks are property of their respective owners. MicroSurgical Technology is in no way affiliated with Alcon. Patent number: 6,340,355 B1
Soft I/A® tips

Description: Catalog Number
Soft I/A Straight, six pack S-IA-02020-6
Soft I/A Curved, six pack S-IA-02021-6
Soft I/A 45° six pack S-IA-02022-6

Associated Handpieces

Description: Catalog Number
Maestro I/A Handpiece MHP-0001
InterTip Titanium Ti-98100
InterTip Stainless Si-98200
Duet BiManual Aspiration Handpiece Du-02100

Adaptors for use with Soft I/A® and InterTip

Description: Catalog Number
MST adapter for InterTip Titanium TA-01332
MST adapter for InterTip Stainless SA-01340

Note, no adaptor is needed for use of Soft I/A with the Maestro nor Duet Handpieces
Patent number: 6,902,558
For over 20 years MST has made I/A devices to the highest of quality standards.

For the better part of that 20 years we have manufactured InterTip, one of the original and most popular interchangeable tip I/A systems in the world.

We estimate that MST has actually made 40 some percent of the worlds I/A devices, and through the years we have utilized the same care that our Ophthalmologist founder instilled in our I/A devices all those years ago.

Available in Titanium and Stainless versions with a wide array of tips, MST InterTip Ti and MST InterTip Si have stood the test of time and ensure you of quality.

InterTip Ti and InterTip Si.
Only from MST.
Duet BiManual System

Whether your desires are oriented toward smaller incision BiManual Phaco or solely to find a better BiManual I/A system, now there is a better product for you.

The Duet BiManual System®

The advantages of this system include:

• The famous Duet irrigation flow rates.

• The unique Duet tip’s robust design which is less prone to break and less expensive to replace than ordinary BiManual tips.

The Duet BiManual system.
Only from MST.