Before using it is imperative that all individuals working with the system read this manual. Users are responsible for learning the proper techniques in the use of the system, as improper use may cause injury.
SYSTEM OVERVIEW

The system consists of a slow speed, low torque drive unit, a unique finger guard and two distinctly different types of abrasive discs. Mounted onto the drive unit the discs are guided in a back and forth motion, using only the lightest pressure, across the surface of the ring or band while the abrasive discs remove succeeding layers of material until a full-thickness cut is accomplished.

*The lighter your touch, the faster GEM cuts®*

1

SELECT THE CORRECT ABRASIVE DISC

Never use manual ring cutter saw blades with your ring cutting system.

![GEM Ring Cutting System](image)

When in doubt, begin with the #224 carbide disc (BLUE). If it doesn’t cut the material immediately, change to the #223 diamond cutting disc (RED).
ATTACH ABRASIVE DISC TO DRIVE UNIT

1. Press thumb against the mandrel to prevent it from turning.
2. Unscrew the disc screw from the mandrel.
3. Push the disc screw through the hole in the center of the disc.
4. Use the small screwdriver supplied with the system to tightly secure the disc to the mandrel.

PROVIDE POWER TO DRIVE UNIT

Model #522: INSERTING THE BATTERY CASSETTE:

1. Install four fresh AA batteries into cassette follow polarity diagram shown on the inside of cassette
2. Unscrew the drive unit’s end cap
3. Slide the cassette into the drive unit in the direction of the arrows on the drive unit and battery cassette and secure the end cap tightly.

Model #622: CONNECTING THE AC POWER SUPPLY

1. Plug power supply into wall outlet.
2. Plug power cord into jack on the bottom of the GEM® model #622 drive unit.

⚠️ MODEL #622 MUST BE PLUGGED INTO A WALL OUTLET TO OPERATE
POSITION FINGER GUARD

1. LUBRICATE: Liberally apply surgical lube to the ring and the surrounding skin surface. This makes it easier to position the guard, acts as a coolant and picks up any metal dust.

2. POSITION THE GUARD: The finger guard is flexible; it can be bent, even into a “U” to fit under even an embedded ring. Slide the guard between the ring and the finger.

3. MATE THE GUARD TO THE DRIVE UNIT: The channel of the finger guard is designed to precisely guide the disc in order to produce an accurate cut.

ACTIVATE THE DRIVE UNIT

1. PRESS THE RED BUTTON TO ACTIVATE

2. BRING ROTATING DISC IN CONTACT WITH RING’S SURFACE

ALWAYS USE EYE PROTECTION
CUT AND REMOVE THE RING

1. Use proper technique: The drive unit is designed to stop if pressure is applied. Use the lightest touch to guide the abrasive disc rapidly back and forth across the surface of the ring allowing it to remove one layer of material after another. If the drive unit stalls or stops you are applying too much pressure.

2. Make a single cut then use the GEM® ring spreader instrument (Order code #250) to spread and remove the ring.

3. Make two cuts in rings made of titanium, chromium cobalt, or tungsten carbide or if the ring is to be preserved and repaired.

ALWAYS REMOVE DISC FROM DRIVE UNIT

1. Use thumb to prevent mandrel from turning
2. Use disc tool supplied with your system to loosen disc screw
3. Clean disc using protocol shown in
4. Return to disc to plastic container
5. Reinstall disc screw using thumb to prevent mandrel from turning.

DISCARD DULL CUTTING DISCS

Diamond (RED) cutting disc: run your finger along its edge, if the edge is smooth, discard.

Carbide (BLUE) disc: if the carbide is worn down to the point that it will not cut completely through a ring, discard the disc.
PROBLEM: EXCESS HEAT

<table>
<thead>
<tr>
<th>CAUSES</th>
<th>REMEDIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DULL #223 DIAMOND DISC</td>
<td>DISCARD, REPLACE WITH NEW DISC</td>
</tr>
<tr>
<td>LACK OF COOLANT GEL</td>
<td>LIBERALLY APPLY SURGILUBE®</td>
</tr>
<tr>
<td>CUTTING ON FINGER GUARD</td>
<td>STOP CUTTING, CHECK PROGRESS</td>
</tr>
<tr>
<td>USING WRONG DISC</td>
<td>REFER TO DISC SELECTION GUIDE</td>
</tr>
<tr>
<td>IMPROPER TECHNIQUE</td>
<td>The lighter Your Touch, the Faster GEM Cuts®</td>
</tr>
</tbody>
</table>

PROBLEM: SLOW CUTTING

<table>
<thead>
<tr>
<th>CAUSES</th>
<th>REMEDIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPROPER TECHNIQUE</td>
<td>The lighter Your Touch, the Faster GEM Cuts®</td>
</tr>
<tr>
<td>DULL #223 DIAMOND DISC</td>
<td>DISCARD, REPLACE WITH NEW DISC</td>
</tr>
<tr>
<td>USING WRONG DISC</td>
<td>REFER TO DISC SELECTION GUIDE</td>
</tr>
</tbody>
</table>

CARE AFTER USE

1. Remove the abrasive disc from drive unit and clean discs after each procedure using warm water and mild detergent. Disinfect with quaternary ammonia after each use. If blood is present, soak in bleach according to manufacturer's directions for appropriate contact time. Dry thoroughly with a clean lint-free cloth, then store in its container.

2. Clean guard and drive unit with an alcohol, quaternary ammonia or hydrogen peroxide moistened lint-free cloth or equivalent wipe.

3. Return all components to carrying case. Storage should be done in a manner to protect the device and reduce risk for infection.

4. Note: Do not apply any abrasive material on any part of the equipment, spray or immerse in liquid. Do not use corrosive agents to clean/disinfect.
REPAIRS

The system must be returned to Mooney & Co. for all repairs. Any attempt to repair or service the system invalidates the warranty.

WARRANTY

The drive unit is warranted against defects in materials and workmanship for a period of one year after date of purchase. Other components of the system are warranted against defects in material and workmanship for a period of 60 days.

QUESTIONS

CALL 1-541-488-2381/1-800-230-5770

FAX 1-541.488-2396

EMAIL mike@www.ringcutter.com

WEB www.ringcutter.com

ORDER CODE NUMBERS

#522 Battery Powered System
#622 AC Powered System
#223 Diamond abrasive disc (2 discs per pack)
#224 Carbide abrasive discs (6 discs per pack)
#525 Finger guards (2 per pack)
#360 Disc retaining screws (pack of 4)
#250 Mooney Ring Spreader™ (1)