Moria Range of Products

LASIK Surgery
Epi-LASIK Surgery
Corneal Transplant
Evolution 3E
LASIK Surgery

Intelligently designed
- Safety and reliability of two independent motors:
  - one for head advancement,
  - one for blade oscillation.
- Simplicity of pre-set parameters: suction time, oscillation speed, advancement rate.
- Customization of flap thickness, diameter, and hinge
- Large Cut solutions for hyperopes, flat corneas, wavefront-guided ablations and lasers requiring large ablation zones characteristics.

The One Use-Plus System
One Use-Plus SBK offers accuracy, predictability and reproducibility equivalent to femto SBK, with faster recovery and at a fraction of the cost.
- Pre-assembled, linear, automated microkeratome.
- Intraoperative visibility.
- Nasal hinge.
- Several head sizes available for customized flap thicknesses from 100 μm\(^{(1)}\) to 130 μm\(^{(2)}\) on average.
- Several Single-Use suction rings to accommodate for all keratometries.

The M2 Single-Use System
- Pre-assembled, rotating, automated microkeratome.
- 360° hinge position.
- Several head sizes available for customized flap thicknesses including for Thin-Flap LASIK (110 μm\(^{(3)}\) on average).
- Multiple suction rings allow intra-operative customization of flap characteristics.

The Single-Use Solution
- Protected blade to avoid potential damage.
- Eliminates complications and risks probably linked to damaged or improperly reusable heads.
- Eliminates sterilization and maintenance.
- More rapid patient turnover, greater profitability.
- Lower initial investment costs.

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(1) Duffey R.J. Moria One Use-Plus SBK microkeratome: predictably thin, smooth, planar flaps for faster visual recovery. 26th ESCRS meeting; Sept 13th 2008; Berlin, Germany
Epi-LASIK Surgery

Epi-K™

The unique design and intelligent features of Moria Epi-K™ have made it the leader in the US epikeratome market⁽¹⁾.

• Epi-LASIK is a refractive procedure performed with an epikeratome which mechanically cleaves the epithelium from the Bowman’s membrane, leaving a pristine optical zone for laser ablation. The epithelial flap can then either be discarded or repositioned, according to the surgeon’s preference.

• Many surgeons have made Epi-LASIK their procedure of choice for surface ablation. With the Epi-K™ and the latest refinements in technique and postoperative care, Epi-LASIK produces faster healing and visual recovery than all other surface ablation procedures.

The optimal design for safe, reliable separation time after time

• Handpiece with two independent motors for fast separator oscillation and safe advancement rate.

• Metal separator with proprietary edge geometry specifically for cleaving rather than cutting.

• Disposable plastic head encases each separator for added safety and convenience.

• Unique large applanation plate provides yet an additional margin of safety.

• Several suction rings with adjustable stops to customize the epithelial flap diameter.

• Large diameter suction ring for hyperopes, flat corneas, wavefront guided ablations, and lasers requiring large ablation zones.

• Single-Use suction ring option.

⁽¹⁾ Duffey RJ, Leaming D. US Trends in Refractive Surgery - Epikeratome use. Refractive Subspecialty Day during annual meeting of AAO, October 2010; Chicago, IL, USA.
ALTK-CBm System

Unique, fully sterilizable equipment for Microkeratome-Assisted Lamellar Keratoplasties, including:

• Descemets’ Stripping Automated Endothelial Keratoplasty (DSAEK) and Ultra-thin DSAEK indicated in:
  • Fuchs’ and other endothelial dystrophies
  • Post-cataract surgery edema (aphatic or pseudophakic bullous keratopathy)
  • Some failed PKs.
• Superficial Anterior Lamellar Keratoplasty for the treatment of superficial corneal opacities resulting from previous refractive surgical procedures, infections, degenerations, dystrophies, superficial scars or trauma.
• Deep Anterior Lamellar Keratoplasty indicated when a thick stromal lamella needs to be removed: keratoconus, post-herpetic scars, post infectious opacities, some corneal dystrophies, and alkali or acid burn lesions.

Moria offers a full range of sterilizable or disposable devices necessary to perform lamellar surgery:

• CB microkeratome with multiple heads and suction rings.
• Dedicated instruments, including the Busin’s glide and forceps for DSAEK and Ultra-thin DSAEK.
• Hanna punch and ONE disposable punch.
• Hanna keratoplasty trephine and corresponding artificial chamber for penetrating keratoplasty.
Evolution3E Control Unit

Operates the One Use-Plus, M2 Single-Use, Epi-K™ and the ALTK-CBm System.

Moria’s console offers a wealth of features to enhance performance, safety, flexibility, and ease-to-use:

• Two high performance pumps maintain safe vacuum.
• “Slow vacuum release” option provides gentle release to minimize potential retinal damage.
• Runs on wall current, with built-in back up battery for uninterrupted use.

Evolution3E Control Unit Technical Specifications:

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>430 x 240 x 190 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>13.6 kg</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>15°C to 35°C (59°F to 95°F)</td>
</tr>
<tr>
<td>Non-condensing humidity</td>
<td>45% to 75%</td>
</tr>
<tr>
<td>Voltage/cycles</td>
<td>115 V / 50-60 Hz</td>
</tr>
<tr>
<td></td>
<td>230 V / 50-60 Hz</td>
</tr>
<tr>
<td>External fuse</td>
<td>External fuse</td>
</tr>
<tr>
<td>Battery capacity and type (inside the control unit)</td>
<td>Battery capacity and type (inside the control unit)</td>
</tr>
<tr>
<td>Fuse (inside the control unit)</td>
<td>Fuse (inside the control unit)</td>
</tr>
<tr>
<td>Inlet : console supply</td>
<td>Inlet : console supply</td>
</tr>
<tr>
<td>Outlet: turbine supply</td>
<td>Outlet: turbine supply</td>
</tr>
<tr>
<td>Type of protection against electric shock</td>
<td>Type of protection against electric shock</td>
</tr>
<tr>
<td>Compliance</td>
<td>IEC 60601-1</td>
</tr>
<tr>
<td></td>
<td>CE 0120</td>
</tr>
<tr>
<td></td>
<td>Medical device of class IIA according to EC directive 93/42/EEC and 2007/47/EEC</td>
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<td></td>
<td>ISO 9001 – version 2008</td>
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<td>ISO 13485 – version 2003</td>
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<td>FDA registered</td>
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</table>
# Product Specifications

## Microkeratomes Technical Specifications:

<table>
<thead>
<tr>
<th>Product name</th>
<th>Manual or Automatic</th>
<th>Advance rate</th>
<th>Application plate</th>
<th>Cutting mechanism</th>
<th>Oscillations per minute</th>
<th>Flap diameter (mm)</th>
<th>Eye fixation</th>
<th>Head size</th>
<th>Flap thickness</th>
<th>Variable flap orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Use-Plus</td>
<td>Automatic</td>
<td>Adjustable</td>
<td>Yes</td>
<td>Blade in disposable pre-assembled head</td>
<td>15,000 rpm</td>
<td>Customizable</td>
<td>Set of rings according to different keratometries</td>
<td>90, 130, Large Cut 110 and Large Cut 130</td>
<td>Avg. 100, 130, 110 and 130 μm respectively</td>
<td>Nasal</td>
</tr>
<tr>
<td>M2 Single-Use</td>
<td>Automatic</td>
<td>Adjustable</td>
<td>Yes</td>
<td>Blade in disposable pre-assembled head</td>
<td>15,000 rpm</td>
<td>Customizable</td>
<td>Set of rings according to different keratometries</td>
<td>90 and 130</td>
<td>Avg. 110 and 150 μm respectively</td>
<td>360˚</td>
</tr>
<tr>
<td>Epi-K™</td>
<td>Automatic</td>
<td>Adjustable</td>
<td>Yes</td>
<td>Blunt edge metal separator in disposable pre-assembled head</td>
<td>Confidential</td>
<td>Customizable</td>
<td>Set of rings according to different keratometries</td>
<td>N/A</td>
<td>N/A</td>
<td>Nasal</td>
</tr>
<tr>
<td>C8 for ALTK-DSAEK</td>
<td>Manual with an autoclavage turbine</td>
<td>Variable</td>
<td>Yes</td>
<td>Blade</td>
<td>15,000 rpm</td>
<td>Customizable</td>
<td>Set of rings according to different keratometries</td>
<td>110, 130, 150, 200, 250, 300, 350, 400</td>
<td>Depending on advance speed</td>
<td>360˚</td>
</tr>
</tbody>
</table>

**Power source:** AC with battery backup

**Regulatory status:** 510(k) approved and CE marked

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