Moria Range of Products



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Moria Leading Innovations in Ophthalmology

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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 reproductibility equivalent to femto SBK, with faster recovery and at a fraction of the cost.

- Pre-assembled, linear, automated microkeratome.
- Intraoperative visibility.
- Nasal hinge.
- Round-shaped or oval-shaped flap option.
- Several head sizes available for customized flap thicknesses from $100 \mu m^{(1)}$ to $140 \mu m^{(2)}$ on average.
- Several Single-Use and metallic 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 (110-120µm⁽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.







Duffey RJ. Moria One Use-Plus SBK microkeratome: predictably thin, smooth, planar flaps for faster visual recovery. 26th ESCRS meeting; Sept 13rd 2008; Berlin, Germany
Vryghem J. Single-Use microkeratomes in demand by European surgeons. Cataract and Refractive Surgery Today Europe 2007;8:68-70.
Huhtala and al. Corneal flap thickness with the Moria M2 Single-Use head 90 microkeratome. Acta Ophtalmol. Scand. 2007;85:401-406.

Epi-LASIK Surgery

Ері-К™

The unique design and intelligent features of Moria Epi- K^{TM} 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.





Corneal Transplant

Superficial Anterior Lamellar Keratoplasty (SALK)

- Deep Anterior Lamellar Keratoplasty (DALK)
 - DSAEK and Ultra-thin DSAEK



ALTK-DSAEK Systems

Unique, fully sterilizable equipment for Microkeratome-Assisted Lamellar Keratoplasties, including⁽¹⁾:

- Descemets' Stripping Automated Endothelial Keratoplasty (DSAEK) and Superficial Anterior Lamellar Keratoplasty Ultra-thin DSAEK indicated in:
 - Fuchs' and other endothelial dystrophies
 - Post-cataract surgery edema (aphakic or pseudophakic bullous keratopathy)
 - Failed penetrating keratoplasty.
- **Superficial Anterior Lamellar Keratoplasty** for the treatment of superficial corneal opacities resulting from previous refractive surgical procedures, infections, degenerations, dystrophies, superficial scars or trauma.

Moria offers a full range of sterilizable or disposable devices necessary to perform corneal transplant:

- Automated or manual microkeratomes 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.
- ONE[®] adjustable vacuum trephine.
- Artificial chambers (either reusable or single-use).

















A Common Platform



Evolution^{3E} Control Unit

Operates the One Use-*Plus*, M2 Single-Use, Epi-K[™] and the ALTK-DSAEK Systems .

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.

Evolution^{3E} Control Unit Technical Specifications:

Dimensions	430 x 240 x 190mm
Weight	13.6 kg
Ambiant temperature	15°C to 35°C (59°F to 95°F)
Non-condensing humidity	45% to 75%
Voltage/cycles	100 V / 50-60Hz 240 V / 50-60Hz
External fuse	500 mA high switching power
Battery capacity and type (inside the control unit)	12 V – 7 Ah (Pb)
Fuse (inside the control unit)	3.15 AT and 500mAT
Inlet : console supply	4-6 bars / 58-87 psi
Outlet: turbine supply	3.2 bars / 46 psi Authorized range : 2.5 to 3.5 bars
Type of protection against electric shock	Safety class BF (according to IEC 60601-1)
Compliance	IEC 60601-1 CE 0120 93/42/EEC ISO 9001 – 2008 version ISO 13485 – 2003 version FDA registered

Product Specifications

Microkeratomes Technical Specifications:

Product name	Manual or Automatic	Advance rate	Applanation plate	Cutting mechanism	Oscillations per minute	Flap diameter (mm)	Eye fixation	Head size	Flap thickness	Variable flap orientation
One Use-Plus	Automatic	Adjustable	Yes	Blade in disposable pre-assembled head	15,000 rpm	Customizable	Set of rings according to different keratometries	90 130 Large Cut 110 Large Cut 130	100-110 μm 130-140 μm 110-120 μm 130-140 μm	Nasal
M2 Single-Use	Automatic	Adjustable	Yes	Blade in disposable pre-assembled head	15,000 rpm	Customizable	Set of rings according to different keratometries	90 130	110-120 μm 140-150 μm	360°
Epi-K™	Automatic	Adjustable	Yes	Blunt edge metal separator in dispo- sable pre-assembled head	Confidential	Customizable	Set of rings according to different keratometries	N/A	N/A	Nasal
CB for ALTK-DSAEK	Manual with an autocla- vable turbine	Variable	Yes	Blade	15,000 rpm	Customizable	Set of rings according to different keratometries	Full range in reusable or single-use version	Depending on advance speed	N/A
One Use-Plus for Artificial Chamber	Automatic	Adjustable	Yes	Blade in disposable pre-assembled head	15,000 rpm	N/A	N/A	Full range in single-use version	Refer to document #65101	N/A
One Turbine	Manual with an autocla- vable turbine	Variable	Yes	Blade in disposable pre-assembled head	15,000 rpm	N/A	N/A	Full range in single-use version	Refer to document #65101	N/A

Power source: AC with battery backup Regulatory status: 510(k) approved and CE marked

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