

# Moria Range of Products



LASIK  
Surgery



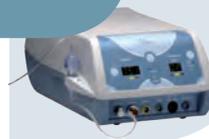
Epi-LASIK  
Surgery



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.

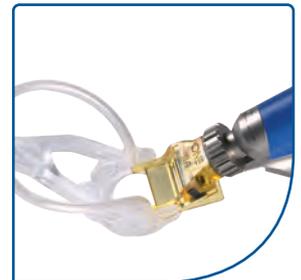
## The Single-Use Solution

- 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.

## 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.
- Several head sizes available for customized flap thicknesses from 100  $\mu\text{m}^{(1)}$  to 130  $\mu\text{m}^{(2)}$  on average.
- Several Single-Use suction rings to accommodate for all keratomeries.



## 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  $\mu\text{m}^{(3)}$  on average).
- Multiple suction rings allow intra-operative customization of flap characteristics.



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

(2) Vryghem J. Single-Use microkeratomies in demand by European surgeons. *Cataract and Refractive Surgery Today Europe* 2007;8:68-70.

(3) Huhtala and al. Corneal flap thickness with the Moria M2 Single-Use head 90 microkeratome. *Acta Ophthalmol. Scand.* 2007;85:401-406.

# 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<sup>(1)</sup>.

- 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 appplanation 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.

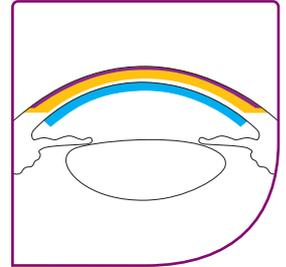


# Corneal Transplant

Superficial Anterior Lamellar Keratoplasty (SALK) ■

Deep Anterior Lamellar Keratoplasty (DALK) ■

DSAEK and Ultra-thin DSAEK ■



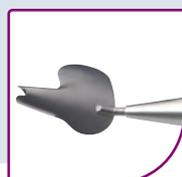
## ALTK-CBm System

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

- Descemet's 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.



# A Common Platform



## 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:

<b>Dimensions</b>	430 x 240 x 190 mm
<b>Weight</b>	13.6 kg
<b>Ambiant temperature</b>	15°C to 35°C (59°F to 95°F)
<b>Non-condensing humidity</b>	45% to 75%
<b>Voltage/cycles</b>	115 V / 50-60 Hz 230 V / 50-60 Hz
<b>External fuse</b>	External fuse
<b>Battery capacity and type (inside the control unit)</b>	Battery capacity and type (inside the control unit)
<b>Fuse (inside the control unit)</b>	Fuse (inside the control unit)
<b>Inlet : console supply</b>	Inlet : console supply
<b>Outlet: turbine supply</b>	Outlet: turbine supply
<b>Type of protection against electric shock</b>	Type of protection against electric shock
<b>Compliance</b>	IEC 60601-1 CE 0120 Medical device of class IIa according to EC directive 93/42/EEC and 2007/47/EEC ISO 9001 – version 2008 ISO 13485 – version 2003 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
<b>One Use-Plus</b>	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 and Large Cut 130	Avg. 100, 130, 110 and 130 µm respectively	Nasal
<b>M2 Single-Use</b>	Automatic	Adjustable	Yes	Blade in disposable pre-assembled head	15,000 rpm	Customizable	Set of rings according to different keratometries	90 and 130	Avg. 110 and 150 µm respectively	360°
<b>Epi-K™</b>	Automatic	Adjustable	Yes	Blunt edge metal separator in disposable pre-assembled head	Confidential	Customizable	Set of rings according to different keratometries	N/A	N/A	Nasal
<b>CB for ALTK-DSAEK</b>	Manual with an autoclavage turbine	Variable	Yes	Blade	15,000 rpm	Customizable	Set of rings according to different keratometries	110, 130, 150, 200, 250, 300, 350,400	Depending on advance speed	360°

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

To obtain more information



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