SBK without compromise using Moria One Use-Plus

One Use-Plus by numbers

- 2+ million patients operated
- 300,000+ patients treated / year since last 3 years
- 120,000+ eyes followed in peer-reviewed protocols
- 45+ peer-reviewed published studies
SBK without compromise to reach ...

**Flap creation in less than 4 seconds** for a minimal suction time, potentially preserving goblet cells\(^1\)
- with a full intraoperative visibility during the whole flap creation

Sequence showing flap creation and lifting on a patient’s right eye using Moria One Use-Plus SBK
Courtesy of James S. Lewis, MD (Elkins Park, PA, USA)

**Predictable thin sub-Bowman flaps** centrally\(^2-12\)
- with a high reproducibility between OD then OS\(^2,4,8,12\)
- with a planar profile/architecture throughout the whole flap surface\(^5-7\)

![Anterior segment OCT pictures of a nasal-hinged corneal flap profile created using Moria One Use-Plus SBK](image)
Courtesy of James S. Lewis, MD (Elkins Park, PA, USA)

When using the SBK 90-µm calibrated head, mean central flap thickness is:
- at **Speed 2** (fast motion): 100 ± 10 [80 – 120] microns
- at **Speed 1** (slow motion): 110 ± 10 [90 – 130] microns

**Excellent stromal surface smoothness** for an accurate photoablation
- confirmed by Scanning Electron Microscopy\(^13\)
- no «velcro-type» surface for a crystal clear anatomical flap apposition\(^6,13-14\)

Scanning Electron Microscopy pictures at different magnifications after cutting a flap with Moria One Use-Plus SBK
with an intended flap thickness of 100 microns
Courtesy of Richard J. Duffey, MD (Mobile, AL, USA)\(^13\)
Excellent safety profile:
- intraoperatively:
  - no buttonhole, no incomplete flap, no epithelial erosion, no irregular stromal bed reported in a large-scale retrospective study on flat corneas (2883 eyes)\textsuperscript{14}
  - with very large flaps (>9.5 mm) required for high hyperopia and presbyopia corrections\textsuperscript{15}
- postoperatively:
  - no single flap displacement\textsuperscript{14}, no haze nor energy-related DLK\textsuperscript{16}
  - one of the lowest incidence rate of epithelial ingrowth (0.49\%) in a large-scale cohort study\textsuperscript{17}
  - one of the lowest myopic & hyperopic LASIK retreatment rates in large-scale cohort studies: <0.5\% & 4.6\% respectively\textsuperscript{18-19}

Very fast visual recovery:
- equivalent to Femto-LASIK\textsuperscript{1,11}
- providing a real «Wow» effect far awaited by every patient

Excellent quality of vision:
- limited changes of higher order aberrations (HOAs)\textsuperscript{9,20-22}
- and evenly less induction of total HOAs and spherical aberrations than during Femto-LASIK\textsuperscript{23}
- intraocular straylight measurements equivalent to Femto-LASIK\textsuperscript{24}
- negligible changes of higher order Point Spread Function (PSF) Strehl ratio, preserving an optimal retinal image quality\textsuperscript{21}

In terms of \textit{in-vivo confocal microscopy} research comparing SBK to Femto-LASIK and other microkeratome\textsuperscript{6}:
- higher density of stromal keratocytes at 3 months postoperatively
- faster regenerative velocity of subbasal nerve fibers due to the nasal hinge which preserves more anatomically-placed corneal nerve branches.
What makes One Use-Plus microkeratome the state-of-the-art in today’s automated microkeratomes

**Excellent ergonomics for a user-friendly automated microkeratome**

- Automated linear motion to benefit from nasal hinge
- Pre-assembled and one-handed usage possible
- Safety and reliability of two independent motors: one for head advancement, one for blade oscillation
- Wide range of suction rings to individualize flap geometry based on photoablative patterns: from oval-shaped to extra-large hyperopic treatments
- Adjustable stops for customized hinge length
- Design of suction ring makes the use of a speculum unnecessary on small fissures
- Translucent single-use plastic ring enables visual confirmation of suction

**Unique choice of single-use calibrated cutting heads & suction rings & aspiration tubings**

Single-use means simplicity, safety, convenience, and ease-of-use:
- Protected blade to avoid potential damage
- Limits complications and risks linked to damaged or improperly maintained reusable heads
- Unique solution to limit infection and contamination from prions, virus, bacteria, germs and other micro-organisms

And as a bonus:
- Single-use heads and rings facilitate compliance with ASCRS guidelines which recommend not using flash sterilization
- Eliminates sterilization and maintenance
- Lower initial investment costs
- More rapid patient turnover, leading to greater efficiency

**The most economical platform for SBK:**
- Limited capital investment and cost per surgery
- Make your own comparisons between the One Use-Plus and a femtosecond laser in terms of capital investment, disposables per patient, and annual maintenance.
### Product references

**One Use-Plus handpiece**

- **#19345**

**One Use-Plus – heads 90/130**

- **Box of 10 units**
- **#19393/90**
- **#19393/130**

**One Use-Plus: metallic reusable suction rings**

- **#19391/-1**
- **#19391/0**

**One Use-Plus: single-use plastic suction rings & heads**

- **Box of 10 units**
- **#19336/XX**
- **#19337/XX**
- **#19354/XXX**

**XX = 90 - 130**

**XXX = 110 - 130**

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**SETM9: ONE USE-PLUS Set (Metal Rings)**

Set containing the One Use-Plus microkeratome for LASIK surgery with 4 reusable metallic suction rings:

- **One Use-Plus handpiece:**
  - **#19345**
- **storage box for One Use-Plus microkeratome:**
  - **#22519514**
- **sterilization box for One Use-Plus suction rings:**
  - **#22519513**
- **One Use-Plus reusable suction ring, size 0:**
  - **#19391/0**
- **One Use-Plus reusable suction ring, size +1:**
  - **#19391/1**
- **One Use-Plus reusable suction ring, size +2:**
  - **#19391/2**
- **One Use-Plus reusable suction ring, size +3:**
  - **#19391/3**
To obtain more information

MORIA SA
15, rue Georges Besse
92160 Antony
FRANCE
Phone: +33 (0) 1 46 74 46 74
Fax: +33 (0) 1 46 74 46 00
www.moria-surgical.com

MORIA Inc
1050 Cross Keys Drive
Dover, Delaware, PA 19902
USA
Phone: (800) 441-1314
Fax: +1 (215) 230 7670
Email: orders@moriausa.com

Moria Japan K.K.
Arcadia Building 6F
1-12-3 Kanda
Sudacho Chiyoda-Ku
Tokyo 101-0041
JAPAN
Phone: 81-3-6260-8309
Fax: 81-3-6260-8310
www.moriajapan.com

Moria Commercial (CHINA) CO., LTD.
上海欧瑞亚医疗器械有限公司
Room H 6F Kaili Building NO.432
West Huai Hai Road, Changning District, Shanghai, 200052, P.R.C
邮编: 200052

Email: orders@moriamc.com

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MORIA SA
15, rue Georges Besse
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Bibliography

13. Duffy et al. Moria One Use-Plus SBK microkeratome: predictably thin, smooth, planar flaps for faster visual recovery. Paper presented during the 26th annual meeting of European Society of Cataract and Refractive Surgery; Sept 13-17, 2008; Berlin, Germany.