











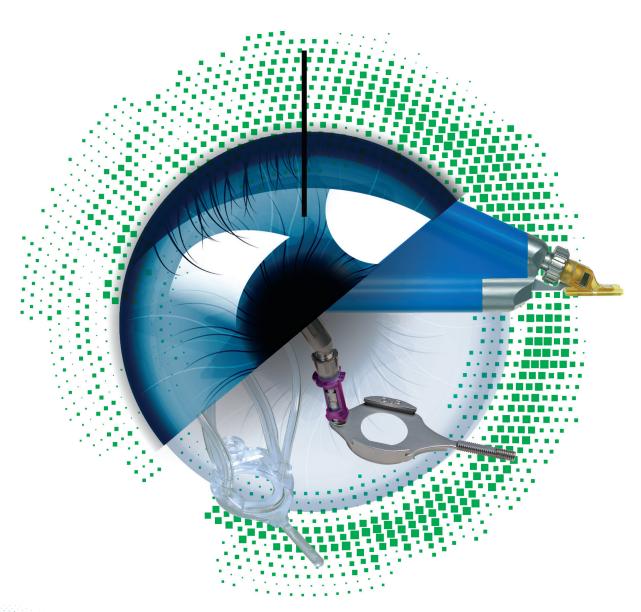






Expert-Focus on large LASIK flaps for hyperopia & wide treatments

# Hyperopic Single-Use Large-Cut Kit For LARGE to EXTRA-LARGE stromal beds

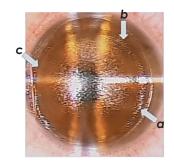






With latest generation of excimer lasers offering larger optical zones and smoother transition zones<sup>1</sup>, hyperopic LASIK is now gaining more and more popularity even if challenges still remain:

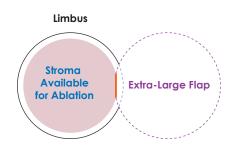
- hyperopic eyes often present with an unusually large angle Kappa (K), resulting in a nasally displaced light reflex<sup>2</sup>
- size of the transition zone of latest excimer lasers varies according to the magnitude of hyperopia to be treated<sup>3</sup>



### Specifications for an ideal flap sizing4:

to be large enough to treat:

- a the optical zone
- **b** & the transition zones
- **c** & some additional peripheral tissue while not compromising flap edges



### That's why Moria specifically proposes a Hyperopic Single-Use Large-Cut Kit:

- the -1 Large-Cut single-use suction ring for regular cases from 39 to 44  $\delta$
- the -1 Large-Cut reusable suction ring for very flat Ks or extra-large flaps

Suction ring		Single-use -1 Large-Cut	Reusable -1 Large-Cut <b>2</b>
Moria nomogram		#65058	#65074XX
Calibrated Large-Cut head		110-µm & 130-µm	
Vertical flap diameter based on K readings (assumptions, mm)	37	-	9.3
	38	-	9.4
	39	9.3	>9.7
	40	9.5	>10.0
	41	9.8	>10.2
	42	10.0	>10.3
	43	10.3	-
	44	10.5	-





### **Suction ring:**

- 1 UU -1LC -single-use plastic ring, size -1 Large-Cut, coming from single-use pack (head & ring):
  #19354/110
- 2 RU -1LC reusable metallic ring, size -1 Large-Cut, with a purple-colored stopper: #19519/-1

### **Cutting head:**

110 LC → 110-micron calibrated Large-Cut head, coming from single-use pack (head & ring): #19354/110

**130 LC** → 130-micron calibrated Large-Cut head, coming from single-use pack (head & ring): **#19354/130** 





My Technique

Dr Laurent Gauthier-Fournet
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## Hyperopia & large treatments

### Rationale for One Use-Plus microkeratome to allow large treatment zones

The treatment of high hyperopia in corneal refractive surgery has always been a challenge<sup>1</sup>

With latest excimer laser platforms, such as the Amaris by Schwind (Germany), the size of the transition zone varies according to the magnitude of the hyperopia to be treated:

- +1.50  $\delta$  hyperopia: OZ = 6.70 mm  $\Rightarrow$  total treatment zone = 7.81 mm
- +6.00 δ hyperopia: OZ = 6.70 mm → total treatment zone = 9.20 mm\*

The higher the amount of ablation in the periphery, the more important it is to optimize the optical quality and therefore to use a keratome to safely make so large LASIK flaps.

To achieve this, **we systematically use the One Use-Plus** (Moria SA, France) linear automated microkeratome<sup>2-5</sup> because:

- it comes with a unique choice of Large-Cut heads & rings
- a nasal hinge is beneficial in the way:
  - it allows to expose a larger corneal surface compared to the superior hinge
  - it is **less disturbed by the rolling movements of the eye**, more pronounced in hyperopic patients during surgery.





<sup>\*</sup> For such large treatment zones, a LASIK flap size of at least 10 mm is recommended.

Stop	Value	

Flap Diameter

Hinge Size

Stroma Available for Ablation

Horizontal	110 LC head		
Keratometry	SU ring -1LC	RU ring -1LC	
39		8.5	
39.5		8.5	
40		9	
40.5		9	
41		9	
41.5		9	
42		9	
42.5	9		
43	9		
43.5	9		
44	9		
44.5	9		
45	9		
45.5	9		
46	9		
46.5	9		
47	9		

Flap Diameter (mm)	Stroma available (mm)	Hinge size (mm)
assumptions	assumptions	assumptions
9.8	9.2	2.4
10.0	9.5	2.6
10.2	9.7	2.4
10.3	9.7	2.5
10.4	9.8	2.6
10.4	9.8	2.6
10.4	9.8	2.6
10.2	9.7	2.3
10.3	9.7	2.5
10.4	9.8	2.6
10.5	9.9	2.7
10.7	10.0	2.8
10.8	10.1	3.0
>10.8	>10.1	>3.0
>10.8	>10.1	>3.0
>10.8	>10.1	>3.0
>10.8	>10.1	>3.0

<sup>\*</sup> Extract from marketing brochure #66105INT - My Nomogram - Gauthier - OUP (EN-FR)

### Notes:

- Both -1 Large-Cut single-use suction ring and -1 Large-Cut reusable suction ring:
  - can only be used with the 110- and 130-µm Large-Cut single-use calibrated heads coming from packs #19354/110 and #19354/130 respectively;
  - can not be used with the 90- and 130-µm single-use calibrated heads coming from boxes #19393/XXX (XXX = 90/130) and from packs #19336/XXX (XXX = 90/130) and #19337/XXX (XXX = 90/130).
- Both -1 Large-Cut single-use suction ring and -1 Large-Cut reusable suction ring can only be used by refractive surgeons having extended surgical experience with the use of the One Use-*Plus* microkeratome.

### **Bibliography:**

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   Schwind website: <a href="https://www.eye-tech-solutions.com/en/infocenter/userreports/dr-gauthier-lasik-high-hyperopia-with-schwind-amaris">https://www.eye-tech-solutions.com/en/infocenter/userreports/dr-gauthier-lasik-high-hyperopia-with-schwind-amaris</a>. Accessed on January 15th 2021.
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- 5. Gauthier-Fournet et al. Six-month outcomes after high hyperopia correction using LASIK with a large ablation zone. Cornea 2019;38:1147-1153

#### To obtain more information

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