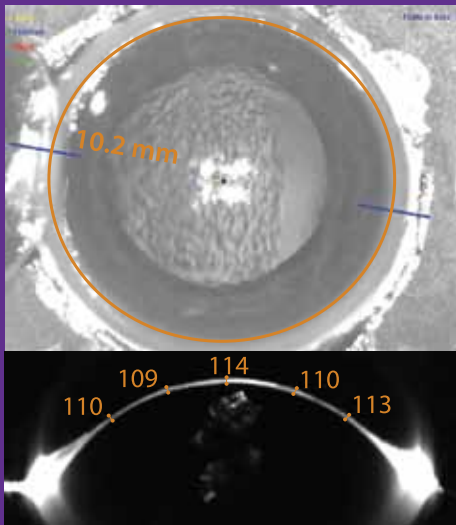


ML7 Microkeratome

Artificial Anterior Chamber System



Results achieved with the ML7 Microkeratome and the iVis Suite.



THIN
PLANAR
REPEATABLE



The first system that delivers
thin planar membranes cut after cut.



Controlling the variables to offer repeatability:

Automated Handpiece

Dual motor handpiece communicates with the console every 50 milliseconds to deliver a consistent blade and transition speed across the cornea for repeatable results.

Console

Electronically powered device with battery backup for added safety; no bottle to refill.

Pressure System

Patent pending pressure gauge displaying real-time pressure readings during the cut, preventing excessive pressure and saving endothelial cells.



ML7100 CLB[®] with six different thickness options, all designed to be within +/- 5 microns in the projected depth of cut for optimum cut accuracy.

Artificial Anterior Chamber

Ability to create a 10 to 11 diameter cut and leave a small hinge to protect the membrane from haze or edema.

Precision Head

Proprietary head geometry applying constant pressure to help create a planar cut. Various sizes available.

Call us at 1-949-582-3891 to find out more.





ZE YOUR

WOW

FACTOR

HOW TO WOW

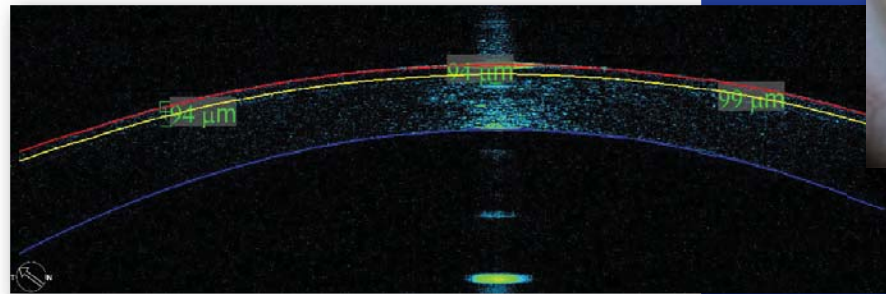
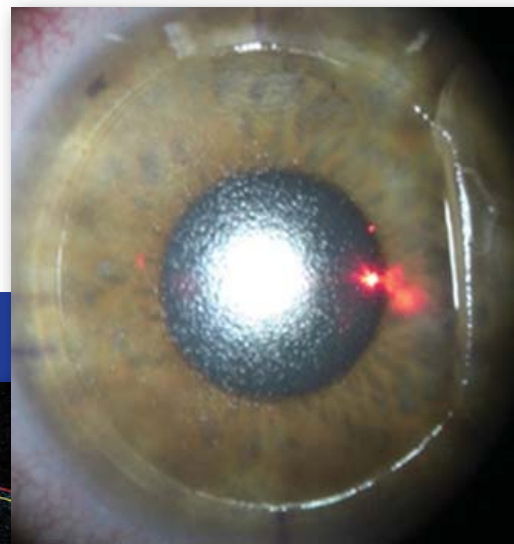
The WOW Factor is that moment when your patient lifts their head up and is overwhelmed with emotion because they can actually see the detail on the clock across the surgery room.

It is a moment that your patients never forget. We at MED-LOGICS want to work with you to achieve that WOW Factor with every single one of your patients.



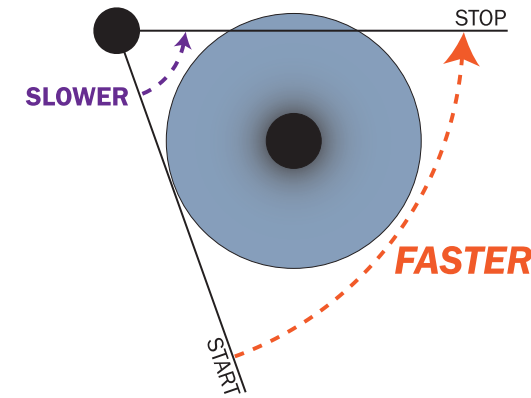
For the maximum WOW Factor, your flaps must be:

1. **PLANAR**
2. **SMOOTH**
3. **THIN**



WHY OTHERS CAN'T

Rotating Microkeratomes Can't



Differing speeds in the arc create an uneven flap thickness.

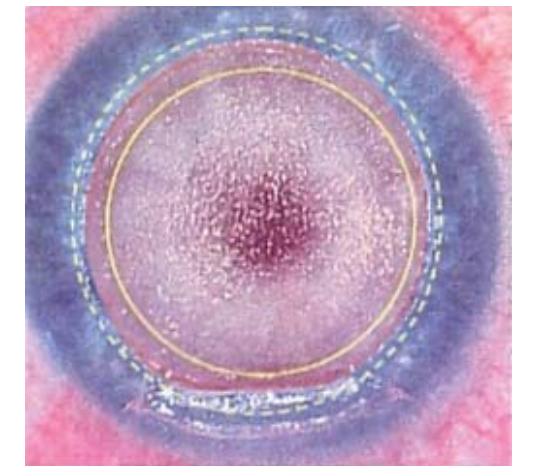
The ML7 microkeratome creates a smooth, PLANAR flap by using a constant linear movement across the eye, controlled by load compensation software.

Femtosecond Lasers Can't

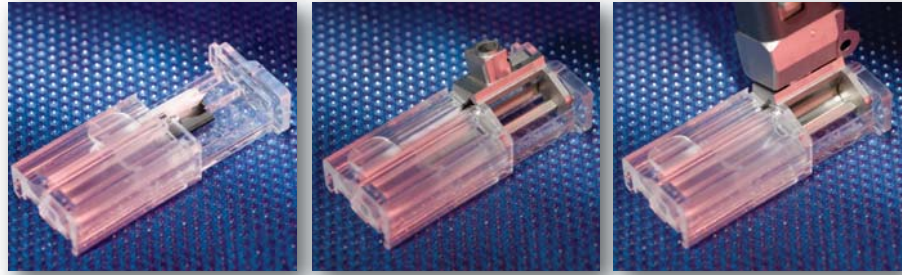
Femtosecond lasers cannot create a smooth separation of tissue, rather they use energy to create bubbles in the cornea, which are dissected with a blunt spatula by the surgeon.

Femtosecond lasers can take the WOW out of LASIK. The excessive energy and blunt dissection of the bubbles can cause edema and leaves a rougher surface of microscopic peaks and valleys. There is also potential for femtosecond laser specific complications like Transient Light Syndrome and Gas Blow-Through.

The ML7 microkeratome creates a smooth separation of tissue, maintaining the clarity required by any type of optic lens. This allows your patient to notice improved vision immediately following surgery.



WOW, THAT'S SIMPLE



Blade Shuttle

- No-contact blade insertion
- Automatically positions blade for easy assembly

Quick Flap Creation

- Flap creation in less than 7 seconds
- Automatic return to starting position



Easy to control console

- Variable vacuum control with large, easy-to-read displays
- Constantly reads motor speeds and adjusts to create consistent flaps
- Backup battery for continued operation after a power loss

Consolidated footswitch

- Durable, consolidated design
- Dustproof and waterproof
- Anti-slide feature



WOW, THAT'S ADVANCED

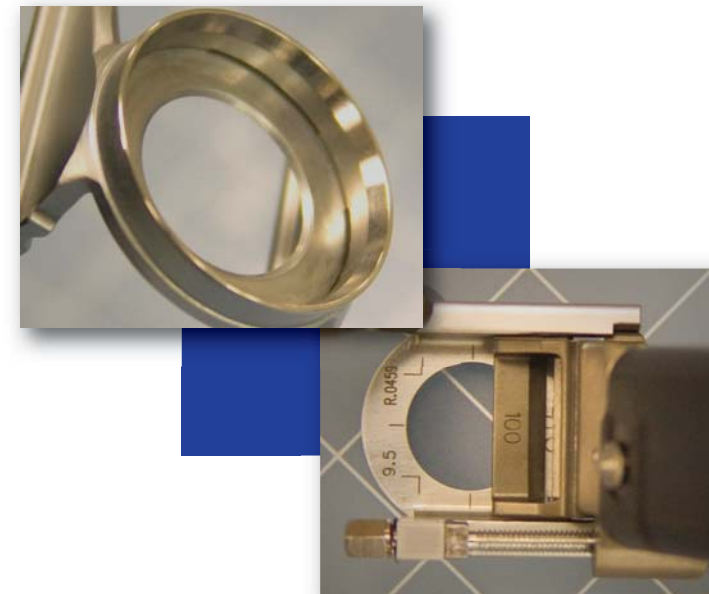


Ergonomic Handpiece

- No assembly on the eye
- 360° hinge positioning
- Lightweight and comfortable

Proprietary Head Geometry

- Epithelium friendly shape and coating
- Applies constant pressure to prevent buttonholes and create PLANAR flaps
- Open design to see the flap while it's cut



Vacuum Rings

- Elevated linear bearing
- Fits difficult eyes, including small, deep-set eyes
- Vacuum slits
- Centration marks

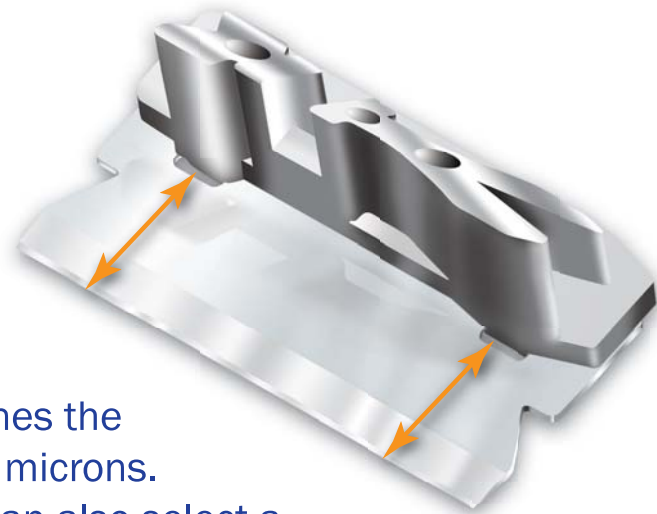


WOW, THAT'S ACCURATE

MORE THAN JUST LASIK



The MED-LOGICS Calibrated LASIK Blade (CLB®) offers surgeons the precision and flexibility needed to ensure every patient experiences the WOW Factor. The Critical Dimension that determines the projected depth of cut is controlled to +/- 5 microns. Beyond this unrivaled precision, surgeons can also select a Plus or a Minus CLB®, depending on the unique characteristics of the patient, to customize the flap to the patient.



EPI-LASIK

The features and advancements of the ML7 microkeratome have also been applied to EPI-LASIK with the ML7 EPI-head and blades.

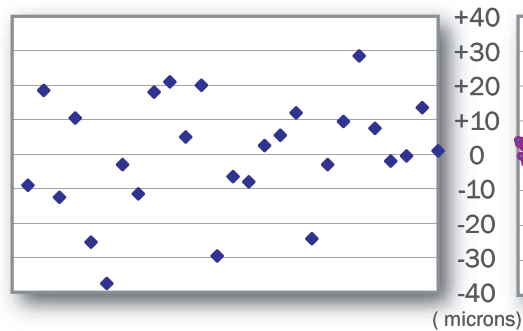
- Blade made from medical grade plastic, designed to remove the epithelium and leave a smooth stromal surface.
- Consistent, software controlled blade oscillation speed and advancement rate.
- Adjustable vacuum level can be optimized for EPI-LASIK.



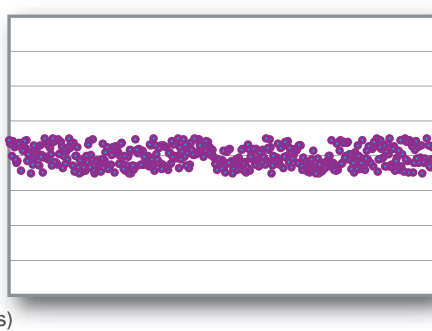
CustomFlap™ Options						
CustomFlap™ Thickness Options (in microns)	MINUS 30 CLB®	MINUS 20 CLB®	MINUS 10 CLB®	PLANO CLB®	PLUS 10 CLB®	PLUS 20 CLB®
100 Micron ML7 Head	70	80	90	100	110	120
130 Micron ML7 Head	100	110	120	130	140	150

Accuracy of the Critical Dimension

Traditional LASIK Blades



CLB



DSAEK

ML7 DSAEK System addresses all of the known variables in the DSAEK procedure, including:

- Pressure accuracy & adjustability
- Microkeratome head accuracy and options
- CLB® Options

This system allows the user to optimize the cut by selecting a unique head, CLB® option, and pressure. Controlling pressure is vital in DSAEK, just as controlling vacuum is in LASIK.





DONOR CORNEA SYSTEM

Precision Head



Nitro Console



Artificial Anterior Chamber



Autoclavable Handpiece



The Nitro Microkeratome utilizes the ML7100 CLB®, which is the same precision blade used in the ML7 microkeratome for accurate cuts, every time.

1627 Enterprise Street
Athens, TX 75751 USA



Tel: +1-949-582-3891
www.mlogics.com



DONOR CORNEA SYSTEM

The NiTRO® Donor Cornea System is a practical way for surgeons or eye banks to prepare an ultra-thin membrane for the DSAEK procedure. Below are just a few advantages of the system.

NiTRO® Console

- Uses no electricity
- Built-in gauge for monitoring pressure to endothelial cells
- Lightweight and mobile

Heads

- Accurate to within $\pm 5 \mu$ in depth of cut
- Reusable metal head reduces cut-to-cut variability

Artificial Anterior Chamber (AAC)

- Crosshairs help center cornea on AAC
- Built-in fluid reservoir
- Unique cornea recovery technique

Fixation Caps

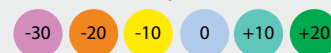
- Creates large diameter cuts with low pressure
- Linear pass creates a planar cut

Turbine

- Proven reliable performance
- Sterilizable

Calibrated LASIK Blades (CLB®)

- Easy to use blade shuttle
- $\pm 5 \mu$ blade tolerance
- Six blade options



Equipment:

MLN1900 - Console
MLN1800 – Footswitch
MLN1600 – Source Hose
MLN1400 – Turbine
MLN1610 – Turbine Hose
9000D – Artificial Anterior Chamber

Cases:

ST0278 – Sterilization Tray Small
ST0625 – Sterilization Tray Large
ST1320 – Sterilization Tray Deep
SC01 – Sterilization Instrument Tray
MLN2000 – Shipping Case

Component Options:

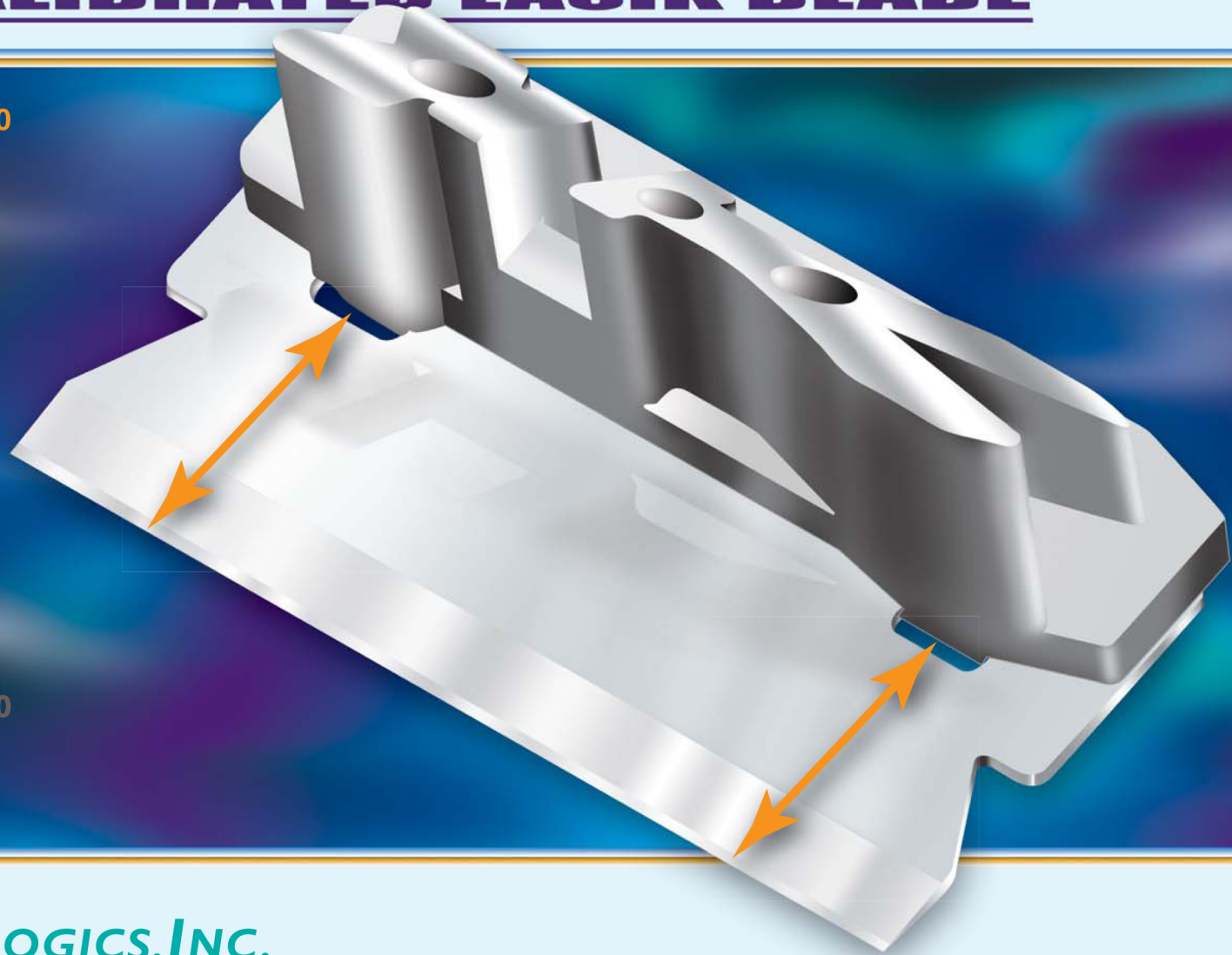
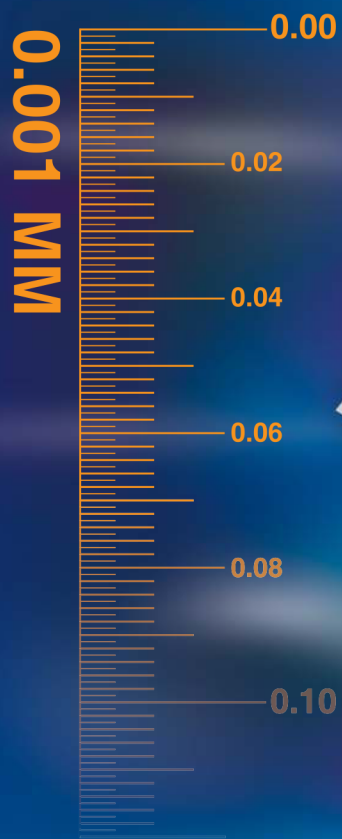
MLN9090FC – Cornea Fixation Cap 9mm
MLN9100FC – Cornea Fixation Cap 10mm
MLN9110FC – Cornea Fixation Cap 11mm
MLN9100 – Cutting Head 100 Microns
MLN9300 – Cutting Head 300 Microns
MLN9350 – Cutting Head 350 Microns
MLN9400 – Cutting Head 400 Microns
MLN9450 – Cutting Head 450 Microns
MLN9099 – Cutting Head Custom Size

Disposables:

9700D – Disposable Syringe & Tubing Kit
ML7100 – Calibrated LASIK Blades (CLB®)

CLB[®]

CALIBRATED LASIK BLADE

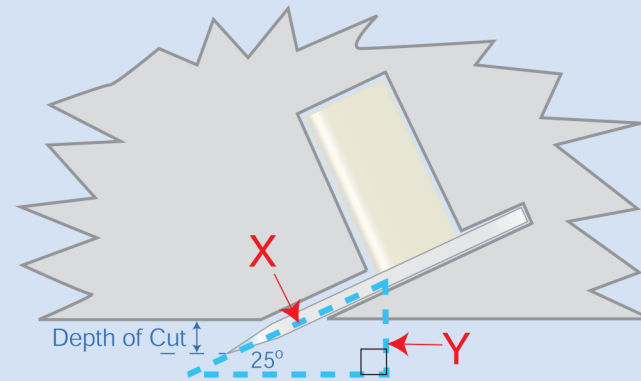


Blade Pitch Accuracy

Maximize your microkeratome.

The MED-LOGICS Calibrated LASIK Blade (CLB®) offers unmatched accuracy to help maximize the performance of your microkeratome.

The most critical dimension of the LASIK blade is from the front surface of the plastic Blade Holder to the cutting edge of the Blade. This dimension is directly related to the depth of cut and is commonly referred to as the Blade Pitch.

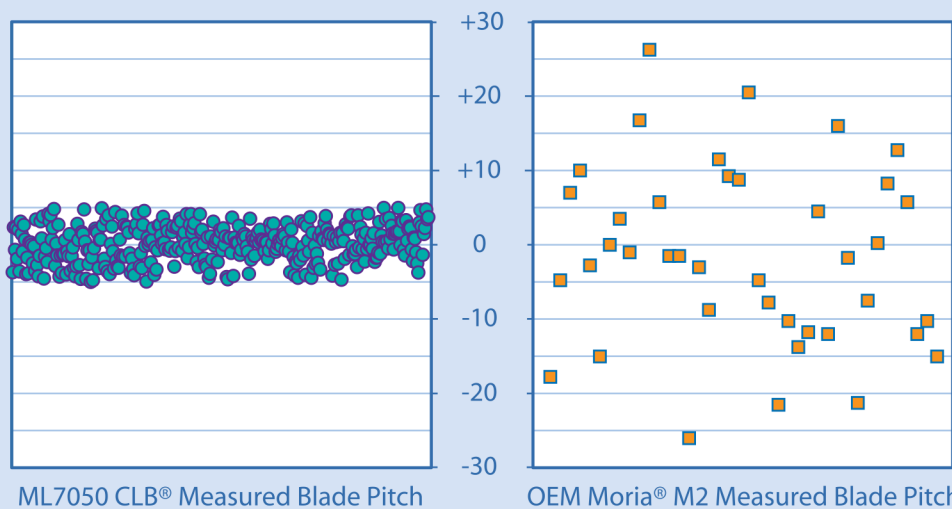


Given
$\Delta Y = \Delta \text{Depth of Cut}$
$\text{sine } 25^\circ = \frac{\Delta Y}{\Delta X}$
$X = \text{Blade Pitch}$

Therefore	
a change in X of x produces a change in Y of y	
x	y
25.4	10.73
50.8	21.47
76.2	32.20
101.6	42.94

* All measurements are in microns.

ML7050 CLB® vs. Moria® M2 Blades



Many of the traditional LASIK blades vary by as much as +/-0.0047" in the Blade Pitch dimension, which would result in a range of +/-50 microns in the depth of cut.

The CLB® maintains the Blade Pitch so that it will translate into a range of +/-5 microns in the projected depth of cut.

It is now possible to produce a CustomFlap® with the treatment options offered by the PLANO, Minus 10, Minus 20, Minus 30, Plus 10, and Plus 20 (microns) Calibrated LASIK Blade (CLB®) models from MED-LOGICS. Through its advanced assembly process, the CLB® is able to maintain a tolerance of +/-5 microns in the projected depth of cut. This unprecedented accuracy allows the CLB® to be taken to the next level in offering surgeons the ability to customize the flap to their patients. Since all corneas are not the same, treatment options are critical to attain optimal results.

PLANO CLB®

The PLANO CLB® model is used when the surgeon wants to create a flap that approximates the average flap thickness produced by the given keratome head.

Minus CLB® Models

A Minus CLB® model can be used to maximize the amount of residual stroma for cases of higher correction. Patients with thicker corneas often experience thick flaps because of the cornea compression that occurs during the microkeratome pass. To adjust for the normally thicker flap on these patients, a Minus CLB® can be used to compensate for the thicker cornea to obtain a desired flap thickness.

Plus CLB® Models

The Plus CLB® model can be used in cases when there is a need to create a thicker flap than the microkeratome head usually creates. This can be especially beneficial in cases where the surgeon must cut below an original flap depth to re-treat a patient.

Other Considerations:

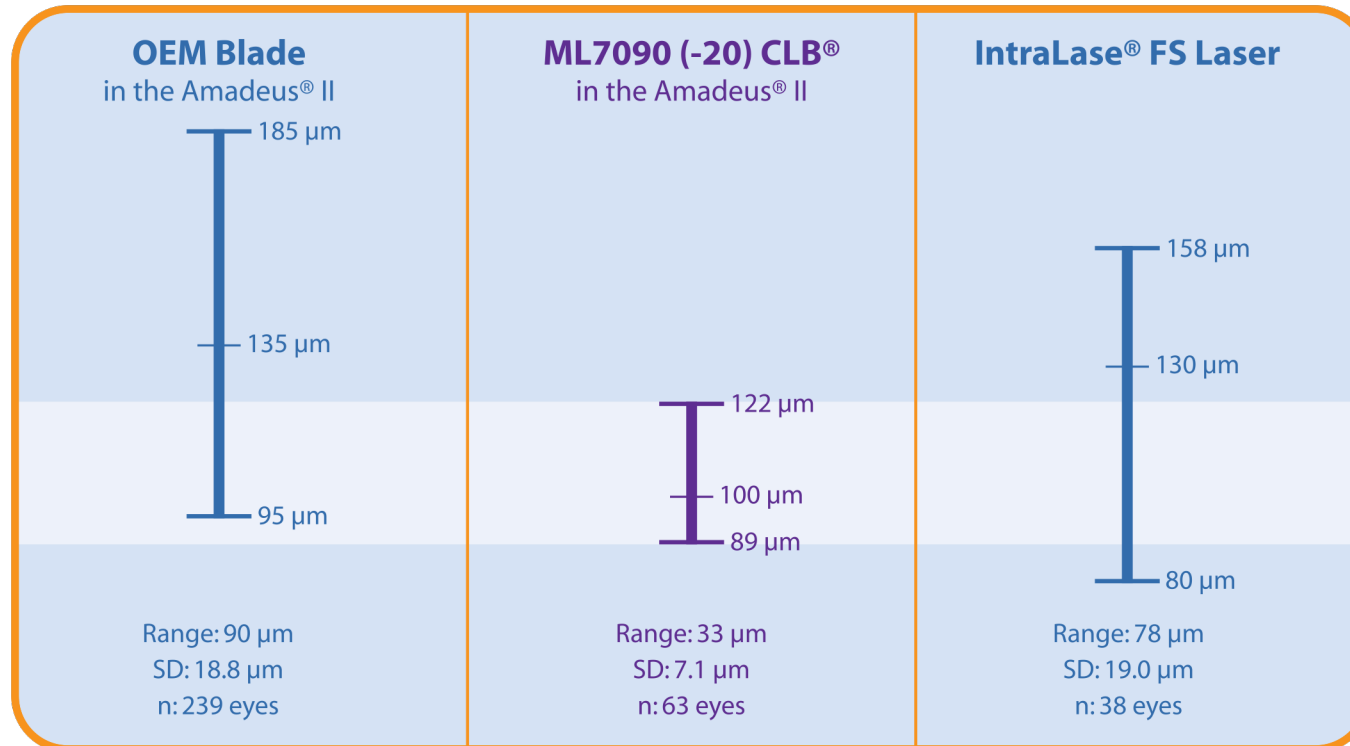
Generally, a thinner flap should contour to the newly ablated stromal surface better than flaps that are excessively thick. However, some surgeons prefer to achieve a flap that is slightly thicker than the head indicates to minimize the possibility of striae. The CLB® options allow the precision required to accomplish either a thinner or thicker flap predictably based on the surgeon's preference.

Each microkeratome brand and model operates differently and has its own performance characteristics, so the same nomogram may not work for all microkeratome brands. Traditional LASIK blades may be the single largest contributor to unpredictable flap thickness, but there are other important factors such as vacuum control, blade oscillation speed, advancement rate, and head accuracy that can have a significant impact on flap thickness.



Flap Thickness Predictability

Get results you can depend on.



Amadeus® II data for both the OEM blade and the ML7090 (-20) CLB® was provided by Marc Mullie, MD and Gordon Balazsi, MD of the Laservue Refractive Surgery Clinic in Montreal Canada in 2006 and is on file. Neither surgeon has financial interest in or is compensated in any way by MED-LOGICS, Inc.

IntraLase® FS data was generated by Perry S. Binder, MD and published in the Journal of Cataract and Refractive Surgery in June 2006. Dr. Binder is a paid consultant to IntraLase/AMO.

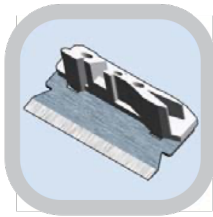
Benefits of a predictable flap:

- > Reduced risk of complications
- > Repeatability and peace of mind
- > Improved patient outcomes
- > Broader range of LASIK candidates

The MED-LOGICS Calibrated LASIK Blade (CLB®) offers unparalleled flap thickness predictability. The proprietary CLB® design allows for unmatched precision in the Blade Pitch. This precision translates into greater repeatability and predictability of the flap thickness.

The chart above shows data the ML7090 CLB® to be over twice as accurate as an OEM blade for the same microkeratome. This was a direct comparison study using the same surgeons and the same piece of equipment.

Products



ML7100 CLB®

To fit the **ML7™**
Microkeratome
10/box

-30 -20 -10 0 +10 +20



ML7030 CLB®

To fit the **Nidek® MK-2000**
Keratome System
10/box

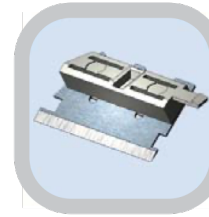
-30 -20 -10 0 +10 +20



ML7020 CLB®

To fit the **Moria® C-B**
Microkeratome
10/box

-30 -20 -10 0 +10 +20



ML7050 CLB®

To fit the **Moria® M2**
Microkeratome
10/box

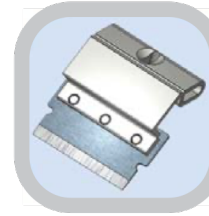
-30 -20 -10 0 +10 +20



ML7040 CLB®

To fit the **Lasitome/SKBM**
Microkeratome
10/box

-30 -20 -10 0 +10 +20



ML7090 CLB®

To fit the **Amadeus® I & II**
Microkeratome
10/box

-20 0 +20



ML7061 CLB®

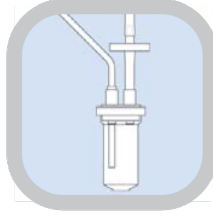
To fit the **Moria® LSK ONE**
Microkeratome
10/box

-30 -20 0 +20



ML7003

To fit the **ACS**
Microkeratome
10/box



Tubing

ML8001VS- For **ACS**,
Hansatome®, and **Amadeus®**.
ML8060VS-For **Moria®** & **ML7**.



Keratome Repairs

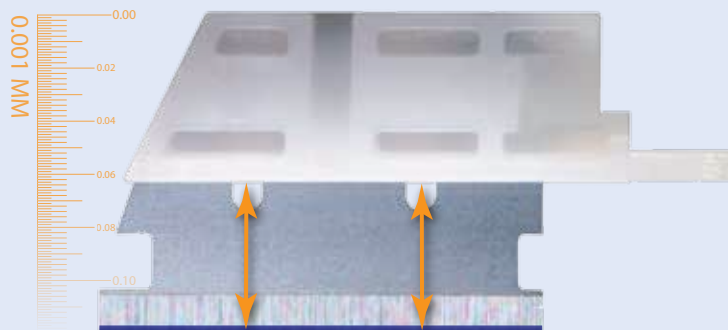
We currently service the
ACS, **Hansatome®**, and
Moria® M2 microkeratomes.



MED-LOGICS, INC.




CLB[®]

Calibrated Blade to fit your
Moria[®] CBm Microkeratome



Calibrated Blade Extension

Customize the Cut

 MINUS 30 CLB[®]	 MINUS 20 CLB[®]	 MINUS 10 CLB[®]	 O PLANO CLB[®]	 PLUS 10 CLB[®]	 PLUS 20 CLB[®]
To Achieve a Thinner Cut			Standard	To Achieve a Thicker Cut	

Each cornea is unique and being able to customize the cut is critical to attain optimal results.

Reasons to consider switching to the ML7020C Blades:

- 6 Calibrated Blade Options
- ± 5 Micron Tolerance in the Projected Depth of Cut
- Sharper 3 Bevel Cutting Edge vs. Only 2 Bevels with Moria[®]
- More Cost Effective

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MED-LOGICS, INC.

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www.mlogics.com



The power to WOW.



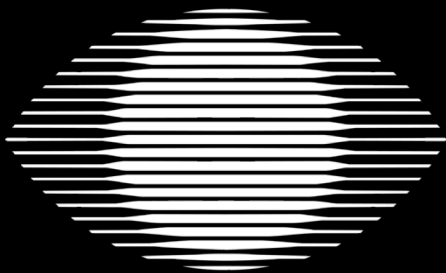
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