



DORC



UPGRADED

- Redesigned integrated footswitch
- Enhanced illumination



eva

Phaco - Vitrectomy system that  
maximizes surgeon control



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## WHY EVA ?

Phaco - Vitrectomy system that maximizes surgeon control



# Meet EVA

*an innovative cataract and vitrectomy system that maximizes surgeon control.*

## Enhanced fluidics: Vacuum & Flow

- Precise flow eliminating pulsation
- Fast vacuum rise times
- Automatic Infusion Compensation for IOP stabilization\*

## Two dimensional cutting

- Stable flow at all cut speeds
- High speed cutting up to 16,000 cpm\*\*
- High efficiency vitreous removal

## LED endoillumination UPGRADED

- Light output increased by at least 30% (for 25/27G)
- No degradation of output for +10,000 hours
- Adjustable yellow tinting for extended surgical time

## Redesigned integrated footswitch UPGRADED

- Integrated control of laser via main footswitch
- Single or Dual Linear control
- Wireless with longer battery life

## Intuitive user interface

- Simple and logical
- 19 inch interactive screen with voice feedback
- Fully programmable surgeon preferences

## Complete phacovitrectomy system

- Efficient phaco emulsification
- Diathermy
- 532 nm laser
- Single, universal cassette for cataract, vitrectomy and combined procedures

\* AIC available for vitrectomy mode

\*\* The TDC cutter has a cut speed of up to 8,000 CPM and is designed to facilitate cutting tissue on the return of each stroke of the vitrectome, effectively doubling the cut speed.



## REVOLUTIONARY DUAL MODE FLUIDICS: VACUFLOW VTi

Valve Timing Intelligence (VTi) pump provides surgeons  
with flexibility and control

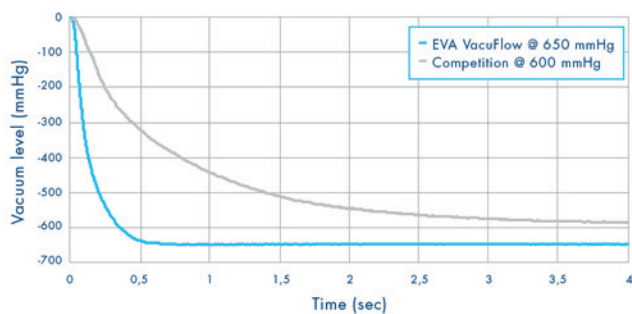
# Vacuum Mode or Flow Mode?

There's no need to choose

## Vacuum mode

- Provides surgeon with efficiency: tissue comes to the port
- Ideal for core vitreous removal
- Controllable vacuum response time

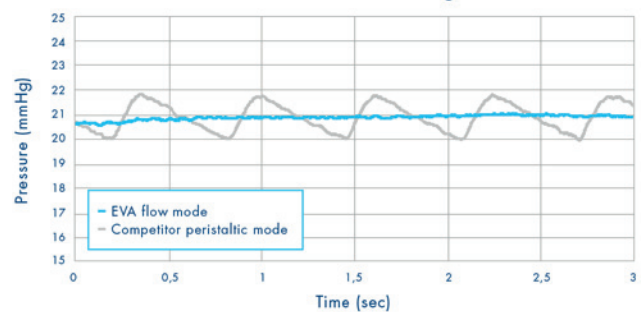
3 times faster rise time than traditional Venturi



## Flow mode

- Provides control for precise removal of tissue
- Ideal fluidics for:
  - shaving vitreous base
  - trimming membranes for retinal tears
  - working close to mobile retina

Reduction in the pulsatile characteristics of Peristaltic (pressure pulsation with 23G cutter)



Peter Stalmans, MD, PhD, Belgium

*"Vacuum can be useful during core vitrectomy for high speed vitreous removal, while flow control provides greater safety when working close to a detached retina."*



Shunji Kusaka, MD, PhD, Japan

*"As VTi pump system offers very stable, efficient, and reliable aspiration, I feel like surgery is performed with perfect control."*

## TWO DIMENSIONAL CUTTING (TDC) UP TO 16,000 CPM\*

Combining TDC with up to 16,000 CPM\* and VacuFlow VTi fluidics defines a new standard for surgeon control



\* The TDC cutter has a cut speed of up to 8,000 CPM and is designed to facilitate cutting tissue on the return of each stroke of the vitrectome, effectively doubling the cut speed.





Fanis Pavlidis, MD, PhD, Germany

*“The TDC vitrectome provides high efficiency vitreous removal. The constant controlled aspiration flow, in combination with the VTi, helps ensure excellent fluidic and retina stability throughout the procedure.”*

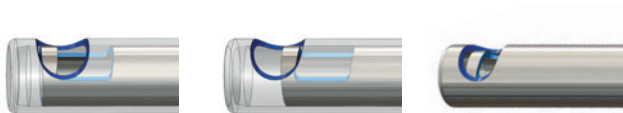


Gregory Fox, MD, USA

*“I found the flow rate a remarkable improvement. I was pleased at the near total lack of retinal motion while shaving proliferative membranes.”*

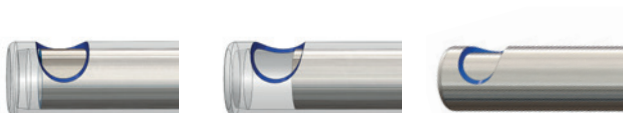
## Efficiency

- TDC cuts in both directions doubling the cutting - further reducing traction
- Port open 92% of the time - for faster tissue removal



### TDC Cutter

Continuous open aspiration port. Constant aspiration flow, independent of cut rate.



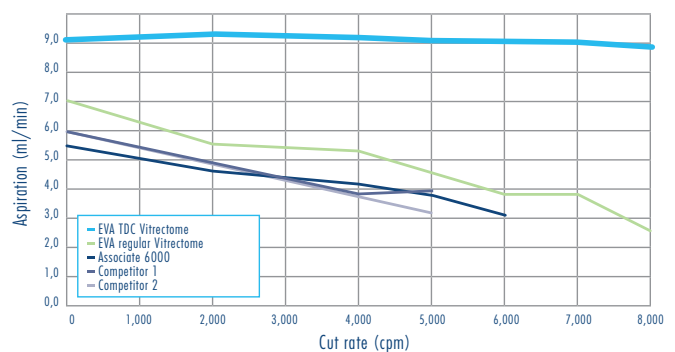
### Classic Cutter

Duty cycle controlled aspiration port. Higher speed, lower aspiration flow.

## Stability

- TDC with VacuFlow VTi fluidics allows surgeon to control flow of tissue into the port for precise cutting
- Port open design reduces intraocular turbulence caused by traditional cutters allowing better surgeon control

### Comparative evaluation of small-gauge vitrectomy cutters measuring flow rates at varying cut speeds





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## ENHANCED LED ILLUMINATION

Improved light output for no compromise  
small gauge surgery

## Increased light output for 27G surgery

- Latest 27G light fibres provide 65% increase in output
- Enhanced LED light source delivers further increase of at least 30%
- Achieves optimum illumination for 27G surgery

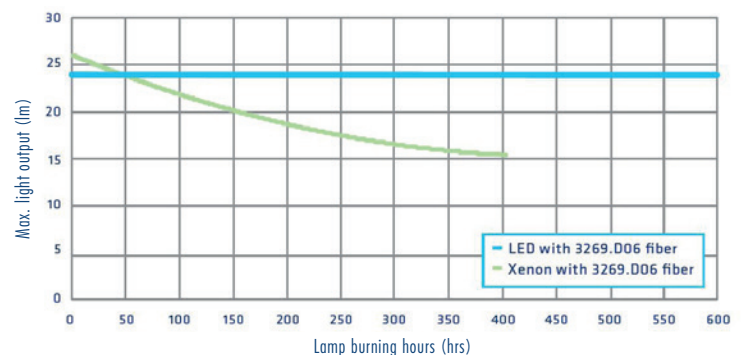
## Available color tinting

- Allows for user adjustable tissue contrast for enhanced visualization
- Increased safety profile for extended or highly complicated cases.

## Constant lumen output

- No degradation of light output over the +10,000 hour life of the LED
- Significant cost savings compared to traditional Xenon bulbs (400 hours).

### Light output comparison: LED vs Xenon



Umberto Lorenzi, MD, France

*“EVA LED light source in conjunction with Eckardt TwinLight Chandelier provides comfortable visualization to perform all vitreoretinal cases.”*



Peter Szurman, MD, PhD, Germany

*“This system for endoillumination provides the brightest light intensity available for small-gauge vitrectomy surgery, with the ability to individualize the use of specific light colors, minimizing the risk of retinal light toxicity.”*

## REDESIGNED INTEGRATED FOOTSWITCH

Improved efficiency of use and comfort,  
with integrated laser control





Claus Eckardt, MD, PhD, Germany

*“Significantly improves the comfort of working with EVA. The ergonomics are much better, such as a better angle of operation and a new heel rest design adapted for different foot positions. The integration of laser control in the main pedal is wonderful, eliminating the need for a secondary laser pedal.”*

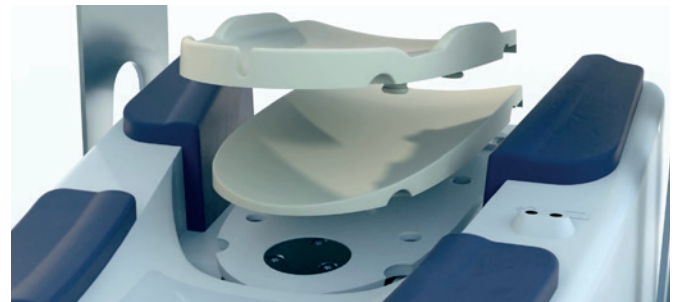


Peter Stalmans, MD, PhD, Belgium

*“With the upgraded LED light source, illumination is no longer a limit to perform 27G surgery, plus, using the new foot pedal, surgery is no longer interrupted when switching to endolaser treatment.”*

## Refined ergonomics

- 6 programmable buttons
- Customizable inlays
- Alternative positions for optimal comfort



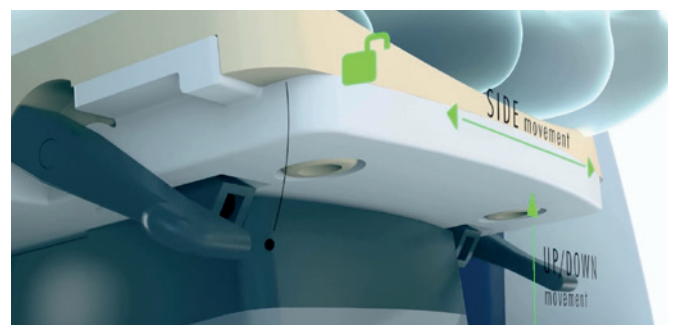
## Enhanced surgeon control

- Integrated laser control
- Intuitive switching between laser and vitrectomy modes
- Wireless with longer battery life



## Wireless, dual linear functionality

- Independent control of aspiration and cutting
- Independent control of aspiration and phaco
- Single linear lock





## EVA FOR ANTERIOR SURGERY

Dual-mode: Vacuum and Flow fluidics designed for optimal phaco performance

## Optimal phaco

- E(fficiency)-Phaco: phaco pulse mode with 125 pps for phaco emulsification and fragmentation
- Needle detection & auto tuning
- Fluidics include aspiration threshold function enabling precise targeting of nucleus segments during phaco

## Sure Touch phaco handpiece

- Compact, lightweight phaco handpiece designed to be more comfortable to hold and for easier manipulation during surgery
- Ridged, ergonomic design for a secure grip during surgery



Franco Spedale, MD, Italy

*"The innovative EVA VTi system is really impressive! Its revolutionary technology contains both Vacuum and/ or Flow modes. This allows me for a total new approach during my cataract surgery using less ultrasound energy and improved stability and efficiency."*



Klaus Schneider, MD, Germany

*"The grooves give you a great grip and the handpiece itself is perfectly balanced. Its phacopower delivery is even more progressive compared with the phaco handpieces that we used for surgery in the past. The new Sure Touch phaco handpiece is a perfect accessory for our EVA surgery system."*



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