Geuder

vivos

System for Phacoemulsification

Setting Standards in Cataract Surgery

Geuder®

Germany

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vivos

Setting standards in cataract surgery

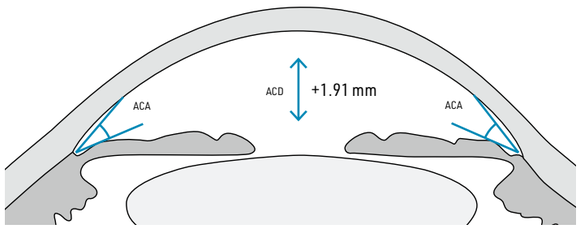
The key features of Vivos, designed to enhance performance and precision in anterior segment surgery, represent a logical evolution from our trusted megaTRON systems.

Remarkable IOP control, a maximized vacuum range, and fast vacuum rise time are elevating phacoemulsification efficiency to the next level.

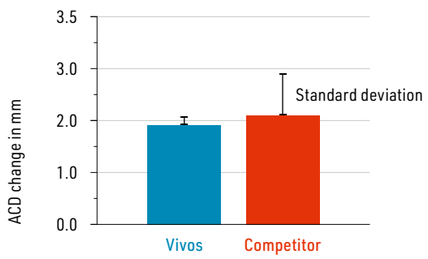
Maximum Vacuum

The adjustable vacuum range of Vivos extends to a **maximum value of 700 mmHg**, nearly approaching the upper limit defined by the laws of physics (~760 mmHg).

When combined with active infusion, which maintains constant control over irrigation and aspiration, high vacuum settings can be confidently employed, providing a secure surgical experience.



Vivos mean AC depth change



Mean AC depth change in comparison

Remarkable IOP Control

Experience impressive stability in the anterior chamber through an actively pumped infusion mode. The unique fluidic management of Vivos ensures a perfect balance between irrigation and aspiration, allowing for precise control of the corresponding intraocular pressure.

When compared to state-of-the-art machines, Vivos demonstrates a remarkable **25 % reduction in anterior chamber depth change**, ensuring consistent IOP control across all vacuum settings.

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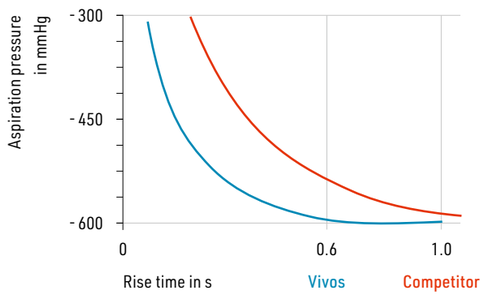
Precision and Power

Fast Vacuum Rise Time

Vivos features a highly responsive pump system. It achieves desired vacuum levels **40 % faster** than state-of-the-art systems by elevating the **maximum flow rate to 100 ml/min**.

A fast rise time allows for quicker procedures and reduces overall treatment time, maximizing patient comfort and satisfaction.



Intuitive User Interface

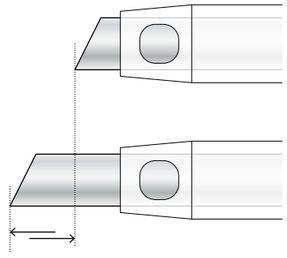
The Vivos user interface is designed for seamless and precise control of all system functions and settings. Its touchscreen interface is user-friendly, providing quick access to essential features to streamline your workflow.

The highly acclaimed logical user guidance of our megaTRON devices was also applied to Vivos to ensure that it complements **your style** on **our system**.

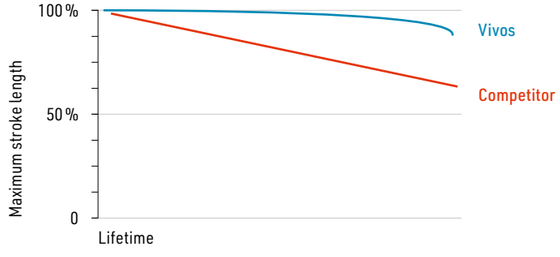
Consistent Performance

The built-in **autotune** technology of Vivos ensures consistent performance throughout the system's lifetime.

This feature **maintains the maximum stroke length** of phaco tips and preserves the effectiveness for a prolonged use of handpieces.



Maximum stroke length



Conclusion

With the Vivos system for phacoemulsification, you will not only gain access to the latest technology but also exceptional performance, precision and safety. Experience the difference that Vivos can make in your practice and be at the forefront of ophthalmic surgery.

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Technical Data

General Specifications

Dimensions (H x W x D)
195 x 427 x 524 mm

Weight
28 kg

Power Supply

Voltage
100 – 260 V

Frequency
50/ 60 Hz

Maximum Power Consumption
260 W

Peristaltic Pump

Vacuum
(linear, exponential, logarithmic and fixed control)
1 – 700 mmHg

Flow
(linear, fixed control and pulsation)
0 – 100 ml/min

Pulsation Frequency
(adjustable)
1 – 20 Hz

Vacuum Rise Time
600 mmHg with 100 ml/min in 0.6 sec

Ultrasound

Frequency Range
26 – 55 kHz

Power Output
(linear, exponential, logarithmic and fixed control)
1 – 100 %

Pulsation Frequency
(adjustable)
1 – 100 Hz

Pulse Duration
(adjustable)
10 – 990 ms

Anterior Vitrectomy

Cut Rate
(linear and fixed control)

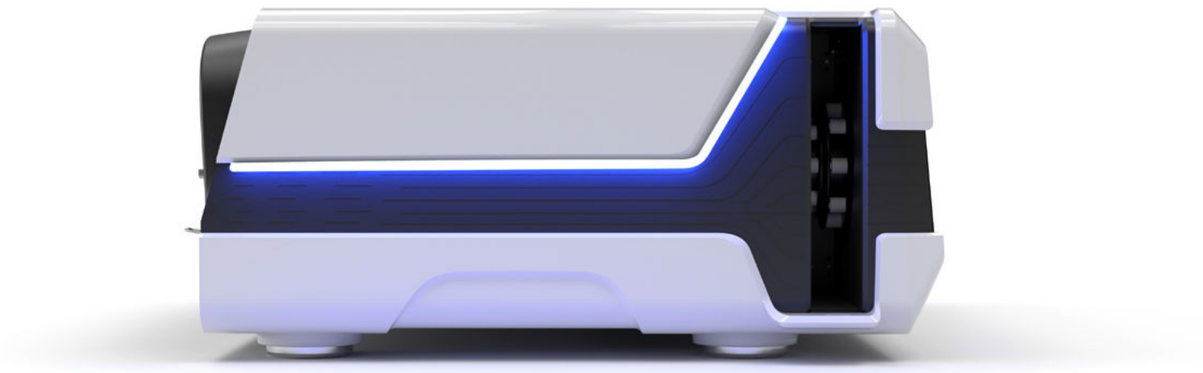
Pneumatic
(with UNO Colorline Mach2 Vitrector)
20 – 3000 cuts/min

Pneumatic
(with UNO Colorline Vitrector)
10 – 1500 cuts/min

Bipolar Diathermy

Power Consumption
(linear and fixed control)
0 – 15 W

Pulsation Frequency
(adjustable)
1 – 100 Hz



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