

oerli[®]
SWITZERLAND

Faros[™]

MAKING THE DIFFERENCE
WITH POWER LED

EYE SURGERY. SWISS MADE.





MAKING THE DIFFERENCE WITH MAINTAINED PATIENT SAFETY

«As an existing Faros user I'm astounded what a step forward is achieved with the new Faros generation. With its new SPEEP pump, I'm able to increase my efficiency level again while reducing phaco energy and maintaining a safe environment at all time. The eyes of my patient truly look happy the next day.»

Dr. Frank Sachers

Augenzentrum Bahnhof Basel, Switzerland

PERFECTION TO THE CORE

Using its innovative developments and high-quality products, Oertli is continuously setting new standards in cataract, vitrectomy and glaucoma surgery. Oertli's surgical platforms, technologies and instruments allow surgeons and OR personnel to perform surgeries in a safer, easier and more efficient way providing better results for patients.

So as to ensure perfect processes and outcomes, Oertli surgical platforms and their corresponding instruments form a closed surgical system. Each instrument is compatible with all Oertli surgical devices, provided that the relevant function is available.

It goes without saying that Oertli is consistently committed to quality in its instruments, handpieces, tips and auxiliaries. Instruments are developed in Berneck, Switzerland, and manufactured with maximum precision, to ensure surgeons can totally rely on their tools.



Christoph Bosshard
Co-CEO

Thomas Bosshard
Co-CEO

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FAROS™ – EFFICIENT AND HIGHLY EFFECTIVE

The Faros surgical platform facilitates eye surgery at the highest level while remaining comfortable and intuitive to use. The compact Faros is optionally available as a device for the anterior segment or as a combined system for both the anterior and posterior segments. The precise fluid control provided by the peristaltic pump makes the surgeon's work even easier and safer. The unique SPEEP pump provides control over both vacuum and flow. The easyPhaco technology creates a stable anterior chamber. The HF capsulotomy tip ensures impressively easy capsulorhexis. The innovative Continuous Flow Cutter enables traction-free vitreous body removal and the new Power LED light source provides 45% more light power in the posterior segment. Faros also includes an integrated HFDS application for glaucoma surgery if required.

**Make the difference –
with Faros by Oertli.**

Vitrectomy	●
Glaucoma	●
Cataract	●



FAROS™ – ALL ADVANTAGES AT A GLANCE

Available as an anterior platform or as a combined anterior/posterior platform

Cutting-edge dual-pump system with flow and vacuum control

SPEEP pump for precise manoeuvres

Power LED with 45% more light output and enhanced control range

easyPhaco technology, developed for safe and efficient emulsification

Unique capsulotomy function

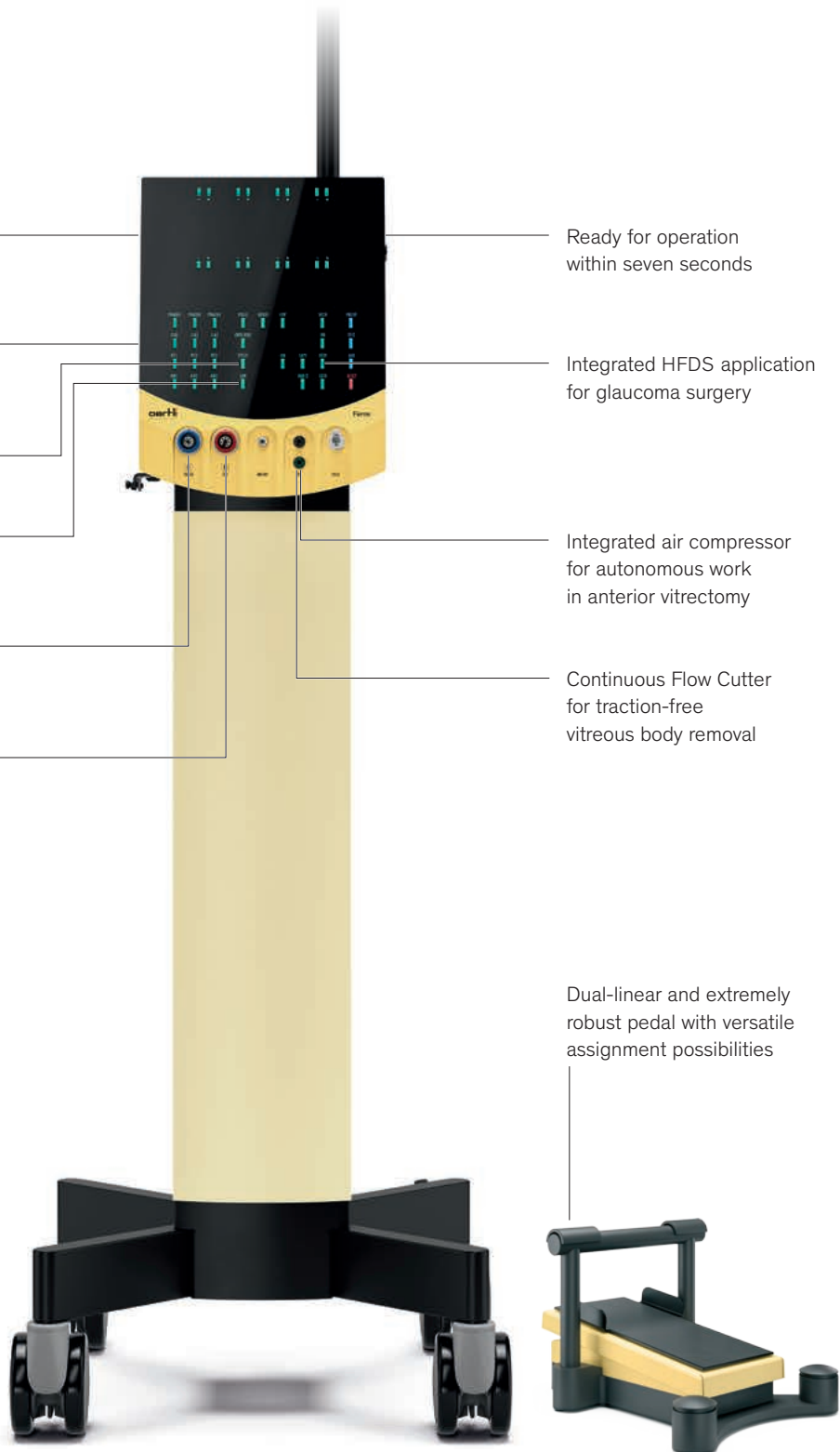
Ready for operation within seven seconds

Integrated HFDS application for glaucoma surgery

Integrated air compressor for autonomous work in anterior vitrectomy

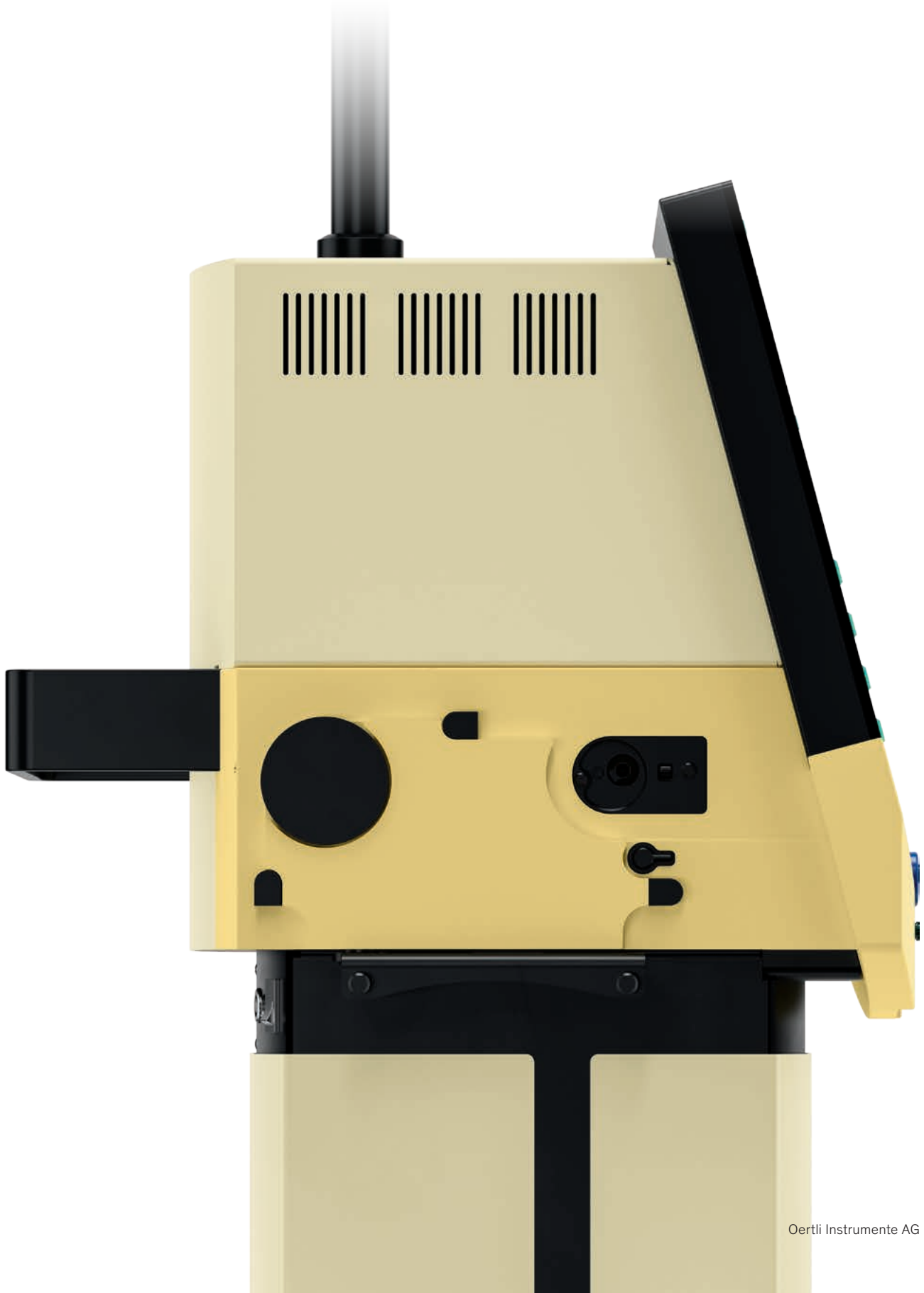
Continuous Flow Cutter for traction-free vitreous body removal

Dual-linear and extremely robust pedal with versatile assignment possibilities



FLUIDIC SYSTEM

FLUIDICS AND DUAL-PUMP SYSTEM



Faros from Oertli is the efficient and powerful surgical platform for cataract and glaucoma surgery and vitrectomy. The device impresses with its precision, versatility, innovative technology and high user comfort, all packed into an extremely compact design.

SPEEP – Speed and precision

The unique pump innovation from Oertli. The SPEEP pump uses the same principle as a peristaltic pump* to control the flow. With SPEEP the vacuum can also be controlled using the foot pedal. This enables precise control of the holding force generated right at the instrument opening.

How does the SPEEP pump work?

SPEEP combines the advantages of a flow-controlled peristaltic pump with the responsiveness of a vacuum-controlled venturi pump.

The SPEEP pump allows both the flow and the vacuum to be controlled independently of each other. The foot pedal not only allows aspiration and release but also gives the surgeon complete control when holding and manipulating fragments and tissue. SPEEP continues to control the vacuum even under occlusion.

What are the benefits of the SPEEP pump?

With challenging cases such as floppy iris syndrome or zonular weakness, precise control of the fluidics is essential.

Thanks to the independent settings for flow and vacuum, SPEEP generates dosable holdability at the instrument opening – giving surgeons complete control.

Fluidics: Unique 2-pump system

- Unique SPEEP pump – for manual control of the holdability regardless of the type of tissue
- Pump responds immediately and directly – facilitating precise and fine manoeuvring directly at the tissue
- Independent control of flow and vacuum – developed for safe work with maximum control



FAST, SAFE AND INTUITIVE

The Faros multifunctional surgical platform for cutting-edge eye surgery is an excellently developed highlight of surgical technology. Yet, complex technology does not have to go hand in hand with difficult operation. On the contrary: The Faros boasts a consistently clear overview and utmost user convenience. Everything is clearly and easily readable. Most connections are located at the front, the tubing suspension is simple and logical. This renders operation comfortable, understandable and safe for the surgeon and OR staff alike. Moreover, the surgical platform is ready for action incredibly quickly: After switching the system on, it is ready for operation within seven seconds. This speeds up preparation for surgery and results in a clearly enhanced performance and an efficiency that saves both time and costs.

Connections

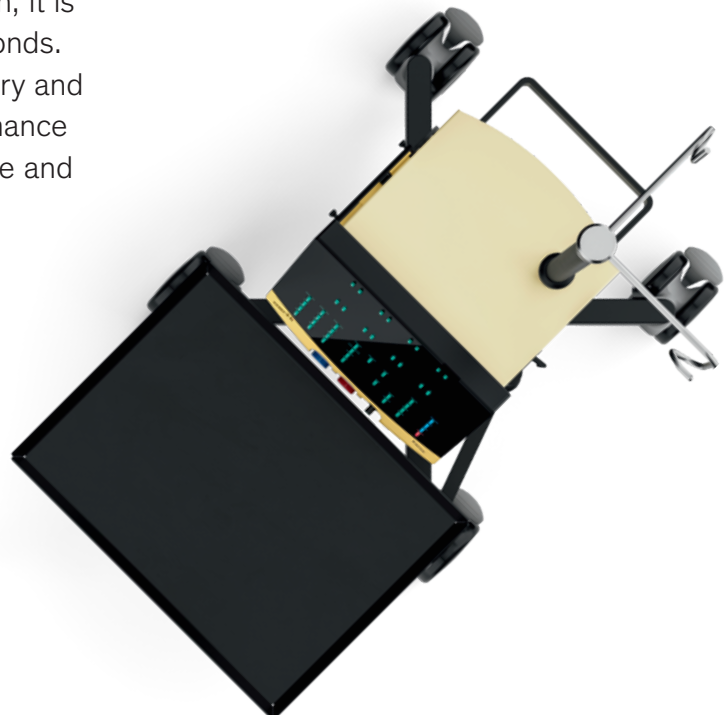
Most instrument connections are easily accessible from the front. This way, preparation for surgery is additionally facilitated and accelerated.

Control panel

The light and clearly readable displays of the control field give precise information on operating values and settings. The logically arranged control buttons are always allocated the same functions that can be activated instantaneously by button pressure. The various functions are individually set for each surgeon and surgical technique in the ParaProg background menu. Programming is possible for up to 50 surgeons.

Instrument table

The optional instrument table (40 × 30 cm) can be fixed at any desired position. If it is not used, the table can be folded sideways quickly and easily.



THE POWERFUL PEDAL

The dual-linear foot pedal is the versatile control unit of the Faros. Made of robust metal and processed with highest precision, the pedal absorbs the surgeon's commands instantaneously and with a great deal of sensitivity.

Dual-linear perfection

In the Faros foot pedal, the dual-linear control becomes apparent in its most intelligent form. The pedal opens up new ways of keeping total control and perfect attunement to the surgeon's wishes and requirements. Many different functions, for example shifting of functions (change of pump, light, air) and adjustment of the bottle height, etc. can be allocated to the auxiliary buttons.

- Dual-linear pedal
- Compact and protected against short-term flooding
- Individually programmable for up to 50 surgeons
- Four auxiliary buttons for versatile assignment possibilities
- Classic cable connection for reliable data transfer



VITRECTOMY SURGERY

FAROS™ IN VITRECTOMY SURGERY



The compact Faros high-performance device sets new benchmarks in vitrectomy surgery in terms of functionality and quality. The Caliburn trocar systems create ideal access and ensure smooth cuts and excellent wound-tightness. The new Power LED technology provides peak light conditions. The pneumatic Continuous Flow Cutter enables continuous flow and ideal portioning of the vitreous body for removal.

CALIBURN™ TROCAR SYSTEMS

Unmatched sharpness and precision

In vitrectomy with the Faros, the Caliburn trocar system ensures precise work with exceptionally sharp instruments. The lance-shaped blade is characterised by strong piercing and cutting force. The razor-sharp Caliburn blade reduces the penetration force and results in a perfect cutting geometry in the sclera. The slim tunnel incision allows for superior postoperative wound tightness and thus rapid wound healing.

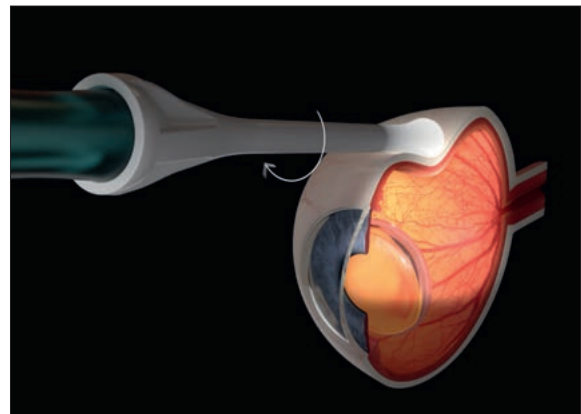
The trocar with integrated closure membrane prevents the leakage of BSS, air and oil, resulting in constant IOP throughout the entire surgery. Thanks to its excellent holdability and perfect shaft length, the Caliburn trocar offers safety and comfort.

Advantages of the Caliburn™ trocar systems

- Convincing postoperative wound tightness
 - Unique surface finishes for even smoother cuts
 - Smooth insertion of the trocar
 - Integrated, double-slotted sealing membrane for constant IOP during surgery
 - Patented infusion tube with snap lock for increased flexibility
-



MORE LIGHT WITH POWER LED



More brightness and homogeneity for even greater safety

Thanks to the new Power LED, the light output in the Faros has been increased by an additional 45 percent – for perfect illumination and visualisation during all manoeuvres, extending to the periphery.

The Faros Power LED light source provides superb homogeneous illumination thanks to its cutting-edge LED technology. The newly enhanced control range can be combined perfectly with the 3D microscope for low lumens.

Advantages of Power LED

- Latest Power LED technology for homogeneous illumination and high durability
- Power LED with 45% more light output¹
- Increased patient safety as a result of decreased photo-toxic exposure on account of lower setting options²
- Enhanced control range for low lumens, perfect combination with 3D microscope
- Extremely homogeneous illumination and high-resolution contrast viewing
- Precise and comfortable Comfort Connector to all endo illuminators

Transscleral illumination made easy

Oertli's ViPer illuminated scleral indenter enables simultaneous indenting and transscleral illumination during interventions in the posterior eye segment. The ViPer is quickly and easily attached to the endo illuminators, it improves visibility and greatly facilitates work in the periphery.

Advantages of ViPer illuminated scleral indenter

- Simultaneous indenting and illumination enables autonomous work
- Improved visibility of the retinal periphery
- Glare-free work without back-scattered light thanks to semi-transparent material
- Homogenous illumination of indented tissues
- Excellent mobility on the globe thanks to smooth material surface
- Suitable for all Oertli endo illuminators

TRUE FLOW CONTROL™

Continuous Flow Cutter

Less traction on the retina

Unlike conventional guillotine cutters with their open and closed positions, the opening of the Continuous Flow Cutter remains open at all times. A 0.1 mm wide double-edged blade cuts forwards and backwards, doubling the number of vitreous body portions per cycle. This can shorten the time needed for vitreous body removal while enabling high cutting speeds with continuous aspiration, even with small gauge sizes.

Discovery of the pneumatic push-pull principle

Oertli made an international breakthrough in vitreoretinal surgery with its invention of the first vitrectomy cutter in 1971. The push-pull principle for pneumatic cutters is another discovery by Oertli. The pneumatic push-pull principle uses the pneumatic force for both the forward and the backward movement. This generates a continuously high cutting force in both directions and eliminates the hysteresis associated with spring-driven systems that results from their limited physical conditions.

Duty cycle? Not an issue

The duty cycle is obsolete because the port is always open. Oertli fluidics uses the physical principle to full advantage. The unique SPEEP pump combines the best properties of the peristaltic and venturi pumps because flow and vacuum can be controlled at the same time. This gives surgeons full control over aspiration and ensures precision for modern vitreoretinal surgery.

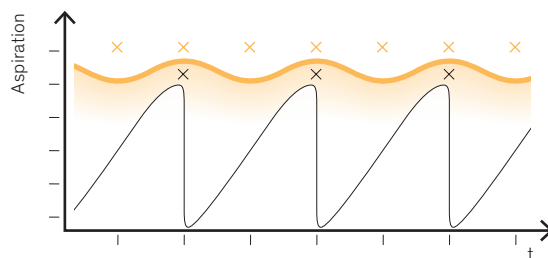
Cutting close to tissue

The minimum distance of 0.17 mm (27 G) from the port

opening to the surface is designed for a close approach to the tissue, enabling precise manoeuvring at the retina.

Advantages of the Continuous Flow Cutter

- Continuously open port generates less traction on the retina¹
- Full control over aspiration thanks to the unique SPEEP pump^{2,3}
- Minimal distance between port opening and surface for close cutting to tissue
- Constant cutting force with up to 10,000 cpm thanks to 100% quality control⁴
- High-speed cutting using the pneumatic push-pull principle discovered by Oertli



- × × Cut
- Oertli Continuous Flow Cutter: continuous flow without any noticeable fluctuations. With each cycle, vitreous body is removed twice.
- Standard Cutter: Flow is interrupted with each cycle.



Oertli data on file

- 1 Compared to the previous generation of the SPS cutter
- 2 SPEEP pump with preset maximum flow rate
- 3 Modulation based on the principle of a peristaltic pump
- 4 100% final check with the cutting test



GLAUCOMA SURGERY

FAROS™ IN GLAUCOMA SURGERY

For surgical treatment of glaucoma, Faros generates appreciable added value in microinvasive glaucoma surgery (MIGS). High-Frequency Deep Sclerotomy (HFDS) has a low rate of complications and delivers promising long-term results even with a shorter procedure.

HFDS®

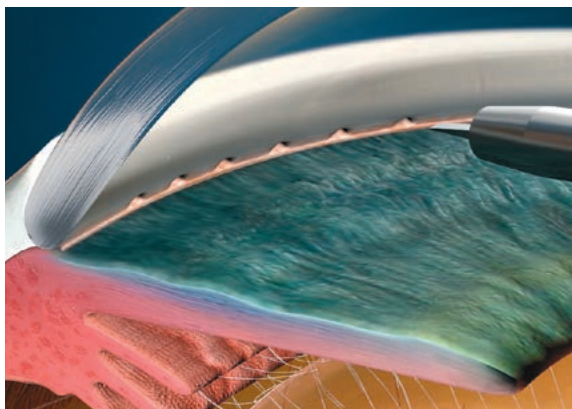
Rapidly applied, long-term success

HFDS stands for *High-Frequency Deep Sclerotomy*. In micro-invasive glaucoma surgery (MIGS), HFDS creates a direct access from the anterior chamber to the Schlemm canal and further into the sclera. The HFDS glaucoma tip is inserted through a 1.2-mm paracentesis and six small sclerotomy pockets are formed in the iridocorneal angle to improve the outflow of the aqueous fluid.

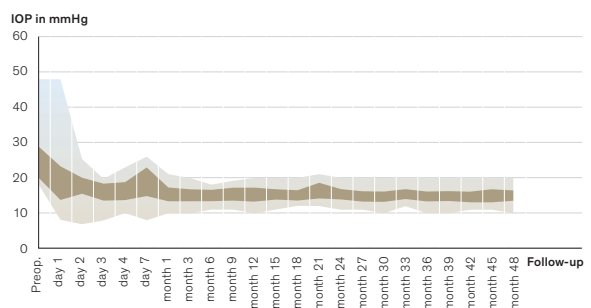
HFDS can be performed by itself or in combination with cataract surgery and is a short procedure. High-frequency deep sclerotomy ab interno from Oertli delivers impressive long-term results for the intraocular pressure. If needed, a procedure with HFDS can also be repeated.

Advantages of HFDS

- Implant-free micro-invasive glaucoma surgery ^[20]
- Impressive long-term results with a stable and long-term reduction in IOP and AGM ^[2]
- Short procedure time with high safety profile ^[2, 8, 14]
- Combined with cataract surgery or a stand-alone application



Outstanding long-term results (48 months) after HFDS procedure ^[2]



[2] B. Pajic, B. Pajic-Eggspuehler, and I. Haefliger, «New minimally invasive, deep sclerotomy ab-interno surgical procedure for glaucoma, six years of follow-up,» *Journal of glaucoma*, vol. 20, no. 2, pp. 109–114, 2011, doi: 10.1097/JG.0b013e318181dddf31.

[8] B. Pajic, Z. Cvejic, K. Mansouri, M. Resan, and R. Allemann, «High-Frequency Deep Sclerotomy, A Minimal Invasive Ab-interno Glaucoma Procedure Combined with Cataract Surgery: Physical Properties and Clinical Outcome,» *Applied Sciences*, vol. 10, no. 1, p. 218, 2020, doi: 10.3390/app10010218.

[14] Kaweh Mansouri, M.D., M.P.H., A Multicenter Prospective Study of High-Frequency Deep Sclerotomy (HFDS) in Open-Angle Glaucoma: 3-Year Outcomes: Manuscript; UNPUBLISHED DATA.

[20] Aleksandar Pavlovic, Ab-Interno Deep Sclerotomy in Eight Simple Steps. [Online]. Available: https://www.oertli-instruments.com/downloads/glaukom/crst_september_2017_ab-interno_deep_sclerotomy_in_eight_simple_steps.pdf

CATARACT SURGERY

FAROS™ IN CATARACT SURGERY

Faros makes cataract surgery speedy, safe, calm and, thanks to its exceptional mobility, is accessible everywhere. The space-saving and portable surgical platform enables cataract surgery at the highest level, whether in modern high-performance operating theatres or under difficult conditions or special circumstances.

HF CAPSULOTOMY

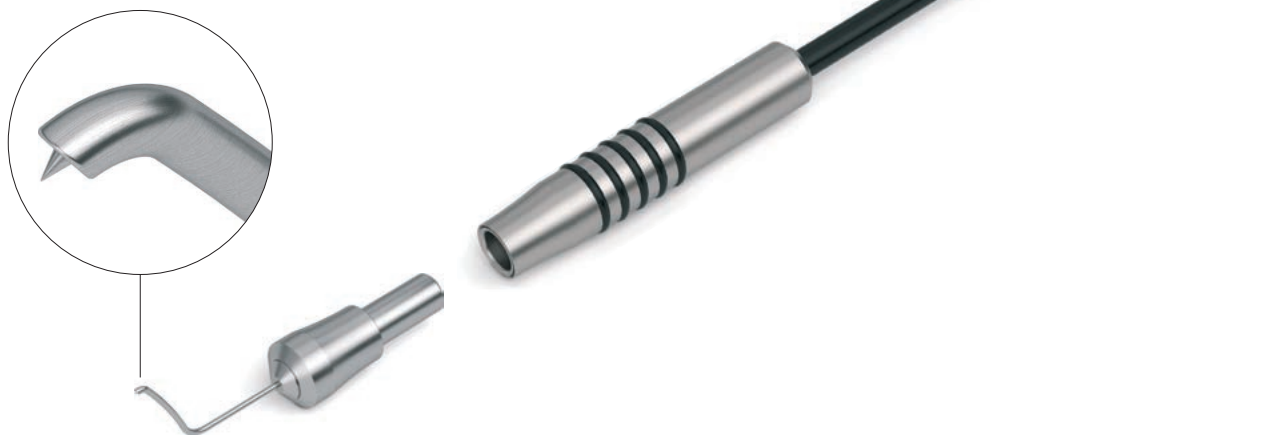
High-frequency capsulotomy

Since its launch in 1991, high-frequency capsulotomy has proven in uncountable cases to be the ideal method for opening the lens capsule. The use of high-frequency energy melts the capsular bag – entirely without the usual tearing by forceps or needles. It is sufficient to gently slide the capsulotomy tip over tissues, even under the iris, while dosing the diathermy energy. The resulting capsular edge conforms to the current standard – both during surgery and over the long term.

HF capsulotomy is suitable for indications such as a lack of fundus reflex, hypermature cataract, traumatic cataract, intumescent cataract and juvenile cataract. Even with narrow pupils, out-of-control rhexis or rhexis phimosis, HF capsulotomy delivers reliable outcomes.

Advantages of HF capsulotomy

- Gentle alternative to capsulorhexis
 - Melting the capsular bag without tearing with forceps or needles
 - Fine and directly controlled dosing of the HF energy
-



EASYPHACO®

easyPhaco® – Fluidics based on physics

By making use of fluidics technology, easyPhaco enables immediate aspiration of the lens material and ensures perfect followability. The unique design of the tips ensure unsurpassed chamber stability, while at the same time, incredibly high holdability can be felt. Aspiration of fragments runs efficiently and without any repulsions. The focussed axial output of ultrasound energy ensures targeted emulsification directly into the lens fragment. And, because the Oertli easyPhaco handpiece is equipped with six Piezo crystals, the transmission of power to the tip happens in a direct and gentle way with less heat development.

New easyPhaco® handpiece

The new easyPhaco handpiece offers surgeons optimized phaco performance over the entire product lifetime as well as more user comfort.

No compromises in phaco emulsification

The new piezo crystals ensure optimized phaco performance* over the entire product lifetime.

The shortened cable length promises more user comfort thanks to less weight and additional space savings in processing and storage (standard sterilization container).

Advantages of easyPhaco®

- easyPhaco technology, developed for safe and efficient emulsification
 - Fragment followability and holdability thanks to the Oertli fluidics concept
 - U/S energy absorbed by the occluded fragments
 - Smooth fragment aspiration without clogging
 - Stable anterior chamber
 - Available from 1.6mm to 2.8mm incisions
-

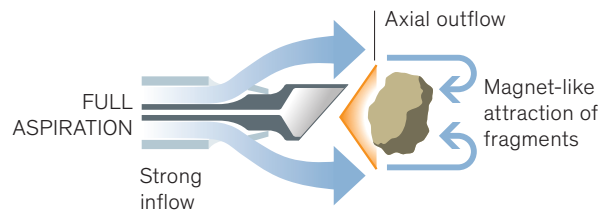


*Internal wet lab measurements with aged handpieces, Oertli data on file

EASYPHACO® TECHNOLOGY

Direct fragment followability

The high vacuum setting and the wide infusion path of the easyTips create a direct flow to the tip. This results in a magnet-like attraction of the fragments.



Strong fragment holdability

The easyTip's unique bevel of the tip opening has been designed to hold fragments firmly at the tip. Thanks to the high vacuum created, fragments are no longer repelled.



U/S energy absorbed by the occluded fragments

Thanks to the strong holdability and the longitudinal movements of the easyTips, ultrasound is axially directed to the occluded fragments.



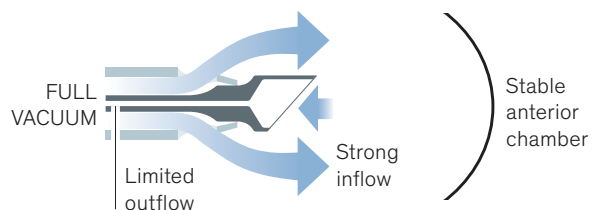
Smooth fragment aspiration

Following an occlusion break, the capillary aspiration path of the easyTips provides continuous aspiration. The high vacuum setting prevents clogging, and fragments are smoothly aspirated.



Stable anterior chamber

A seven times higher infusion capacity favours constant intraocular pressure.



Phako Modulation

Faros offers four different performance modulation types that can be used in combination with easyPhaco or any other phaco technique. The ideal fluidics-support with easyPhaco reduces ultrasound application to a minimum in any case. Even with the traditional linear control, very short phaco time duration is achieved.

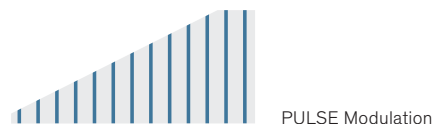
Continuous Linear

The standard method is very efficient. The surgeons have to adjust the power output themselves. The phaco power output corresponds to the pedal deflection.



PULSE Modulation

Reduces the ultrasound energy delivered. Pulse frequency (up to 40Hz) and cooling factor can be selected as desired and independently of the pedal setting. Pulse output corresponds to the pedal position.



BURST Modulation

The BURST modulation reduces the emitted ultrasound energy. The duration and intensity of the bursts (packages of energy pulses) are freely selectable and independent to the pedal position. The pause between the bursts is controlled by the pedal. The more the pedal is pressed, the shorter the pauses become.



IRRIGATION / ASPIRATION HF DIATHERMY

I/A with Safety Design

The Quick Tips with Safety Design have an extended shaft to enable improved subincisional access. The small aspiration opening results in better occludability and ensures optimal stability of the anterior chamber. The well-considered position of the aspiration opening prevents unintended grasping of the capsular bag. Particularly when combined with the SPEEP pump, Quick Tips offer the utmost safety.

Advantages of I/A with Safety Design

- Developed to ensure stable anterior chamber conditions
 - Long shaft for subincisional access
 - Rapid occludability
 - Ideal when combined with the SPEEP pump
 - Available from 1.6 mm to 2.8 mm
-

HF bipolar diathermy

With its trend-setting control system, Faros finely controls the dosing of HF energy and is optimally designed for established applications using the bipolar technique. Tips with ingenious geometry and material selection make the bipolar diathermy instrument a true precision instrument. Even at low power, high-frequency diathermy from Oertli delivers an exceptional effect. High-quality titanium handpieces and innovative tips ensure precision and safety.

Advantages of HF bipolar diathermy

- One function for several applications: Oertli capsulotomy, HFDS, endo-diathermy, macro-diathermy, diathermy forceps
 - Fine and controlled dosing of the HF energy
 - High-quality titanium handpieces
 - Tips with ingenious geometry made from high-quality materials
 - High efficiency even at low power
-



FAROS™ – PERFORMANCE SPECTRUM

System

Fluidics system

- Peristaltic pump
- SPEEP pump
- Gravity infusion, electric pole drive
- Tubing system with integrated closed pressure sensor
- Auto venting
- Limitable reflux
- Pre-op, self-testing and reset functions

Operation

- Control panel with glass cover, indicator lights and silicon buttons
- Dual-linear multifunctional pedal
- Wireless remote control
- Individual programmable for 50 surgeons
- Audio signals

Pedal

- Wired
- User-specific assignment
- Dual-linear or linear
- Reflux function

Anterior segment

HF function

- Capsulotomy
- HFDS ab interno MIGS glaucoma surgery
- Conjunctiva coaptation
- Macro diathermy

Phaco function

- Three programme memories with DirectAccess
- Ultrasound phaco with auto tuning
- U/S phaco hand piece with six piezo crystals
- Linear, PULSE, BURST and CMP
- easyPhaco, CO-MICS and MICS technology
- Dual-linear phaco
- Phaco power override
- Occlusion mode

I/A function

- Three programme memories with DirectAccess
- Vacuum override function
- Continuous irrigation

Anterior vitrectomy

- Three programme memories with DirectAccess
- Dual pneumatic guillotine cutter
- Linear 0 up to 2400 cuts a minute
- Single cut
- Irrigation / Aspiration / Cut
- Irrigation / Cut / Aspiration
- Integrated compressor for autonomous work

Posterior segment

Endo Illumination

- Power LED light source
- Anti-glare panorama illumination
- Filter-free exit

Vitrectomy

- Three programme memories with DirectAccess
- Pneumatically driven Continuous Flow Cutter
- Linear, fixed or progressive, 0 up to 10,000 cuts a minute
- Single cut
- Endo phaco

Air

- Electric pump
- Fluid / air exchange
- Constant pressure control with compensation reservoir
- Three programme memories with DirectAccess
- Alarm function

Visco

- Injection
- Extraction
- Linear pedal control

HF function

- Endo diathermy



MAKING THE DIFFERENCE IN EYE SURGERY

Oertli makes the difference. With its excellent surgical devices and instruments that make surgical interventions safer, easier and more efficient. With lasting innovations and new technology that have long-term impact on ophthalmology. With superb service and real added value for surgeons and OR personnel. And, in its consistent pursuit to accomplish the very best for customers, users and patients.

Setting standards

The name Oertli stands for Swiss quality of the highest precision and reliability. We develop and produce our products exclusively in Switzerland, in the St.Gall Rhine Valley. Thanks to this, we can rely on excellently trained employees and a dynamic environment and have the quality and conditions of our products under our own control.

In the course of its company history, Oertli has developed numerous innovations that have had a sustainable impact on eye surgery. Such success, however, does not make us slow down – on the contrary. We spend every day refreshing our research spirit making sure our innovative thirst will have new challenges again and again.

Although we are present in the whole world and gear ourselves towards the international market, in our hearts, we will always remain an independent family business with a good backbone, strong roots, solid financing and active teamwork. Anyone who works for Oertli does so with great commitment and motivation. As everyone gives their best, we can position ourselves on the market with great confidence. On this basis, we make the difference – for eye surgery, for our customers, and for patients.





Distribution network

Oertli commits itself to the Berneck location in Switzerland. It is here that ideas and innovations come to exist, and here that our devices and instruments are developed and manufactured. To ensure our products can be used in the whole world, we rely either on our own distribution companies or independent distribution partners, depending

on the relevant region. In every case, our ophthalmology customers throughout the world can count on competent and reliable contact persons. They offer excellent on-site service, can inform and advise you on our entire product range and have been perfectly trained for work with our products.

Information on trademark protection

Oertli®, CataRhex 3®, easyPhaco®, easyTip®, SPEEP®, HFDS® as well as the Oertli logo are registered trademarks of Oertli Instrumente AG.

Faros®, OS 4®, DirectAccess®, Caliburn®, ParaProg®, True Flow Control® and GoodLight LED® are trademarks of Oertli Instrumente AG.

References

1 Compared to previous generation with 27G and 25G endo illuminators at 100% intensity in lumen

2 Compared to the previous generation with 25G endo illuminators panorama at low lumen with 5% intensity, working distance 15 mm



MAKING THE DIFFERENCE WITH SERVICE AND EXPERTISE

«I expect speed, expertise and an excellent service from the suppliers of my surgical equipment. The Oertli employees combine all these skills with a warm friendliness.»

Dr. Florian Sutter

Augenklinik Herisau and Appenzell, Switzerland

MAKING THE
DIFFERENCE
IN SWITZERLAND





As a Swiss family-owned company with a long tradition, we focus on what is important: quality, reliability, safety, innovation and the needs of our customers.

We make the difference – for you and your patients.

EYE SURGERY. SWISS MADE.

Surgical
platforms



OS 4™



Faros™



CataRhex 3®

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