



EYE SURGERY. SWISS MADE.





MAKING THE DIFFERENCE IN EVERY SURGICAL SITUATION

«I'm working with different Oertli surgical platforms for more than 20 years. In contrast to other platforms, it's like working with your best friend. You can trust not only in routine cases but in every challenging and complicated surgical situation. Performance, safety, ease of use and continuous innovation are unique!

Dr. Karsten Klabe

Breyer, Kaymak & Klabe Augenchirurgie, Düsseldorf, Germany

Customer feedback, statements, opinions and recommendations (summarised as testimonials) relate to the persons depicted. Results may vary and may possibly not be representative of other people's experiences. Testimonials are provided voluntarily and are not paid for. The testimonials reflect the experiences of the users, but the specific results and experiences are unique and individual for each user.

SWISS QUALITY DOWN TO THE LAST DETAIL

Using its innovative developments and high-quality products, Oertli is continuously setting new standards in cataract, vitreoretinal 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.

To ensure smooth workflows and results, the surgical platforms from Oertli and the corresponding instruments form a closed surgical system. Every instrument is compatible with all Oertli surgical devices, provided that the relevant function is available.

Of course, Oertli is consistently committed to the quality of its instruments, handpieces, tips and auxiliaries. The product portfolio is developed in Berneck, Switzerland, and manufactured under Swiss quality standards.



Christoph Bosshard Co-CEO

Thomas Bosshard Co-CEO

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Easy and safe operation

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The multifunctional pedal

The state-of-the-art multifunctional pedal allows independent working and intuitive navigation through all surgical steps.

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Performance spectrum

The OS4 is impressive thanks to its precision and remarkable performance in cataract, glaucoma and retinal surgery.

OS 4"

OS 4TM THE NEXT GENERATION

The new OS 4 introduces the next generation of retinal, glaucoma and cataract surgery. Numerous innovative features have been added to Oertli's all-in-one platform, providing even greater ease of use, precision and safety.

The new generation of the OS 4 is another innovation leap in retinal, glaucoma and cataract surgery. The further development of the all-in-one platform by Oertli makes work in the OR noticeably easier and faster. The highlights undoubtedly include the two Power LED light sources boasting up to 45% more lightpower, the extended control range from high to low lumens for even more application possibilities as well as the high-resolution contrast vision by means of the color-adjustable Power LED Plus.

The integrated endo laser no longer requires manual operation on the microscope thanks to the fully automated laser user protection filter. The multifunctional pedal offers over 100 setting options – thus being the favourite control for every surgeon. The phaco test is performed in 70% less time and speeds up surgery preparation.

Make the difference – by using the OS 4 by Oertli.



054^{TM}

NEW FEATURE

Laser integration: More safety, fully automated laser user protection filter

- → Fully automated laser protection filter for reliable eye protection during surgery
- → Filter glass is automatically inserted for swift and easy laser preparation
- → Filter glass only active during laser output for clear vision during anterior and posterior segment intervention



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NEW FEATURE

Light: up to 45% more light power

- → Two Power LED light sources with up to 45% more light output¹ for optimised illumination and visualisation during all manoeuvres extending as far as the periphery
- → Expanded control range from high to low lumens for increased patient safety through reduced phototoxic exposure²
- → Ideal in combination with 3D microscope for low lumens
- \rightarrow To make even the finest tissue structures visible and to enable high-resolution contrast vision, the colours yellow and blue can be mixed as needed.





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NEW FEATURE

Pedal: Multifunctional with over 100 setting options

- → The state-of-the-art multifunctional pedal allows independent working and intuitive navigation through all surgical steps.
- → Wide range of pedal assignments for individual control by the surgeon
- → Laser controllable via the same pedal for delay-free use of the laser function
- → Flexible changeover between Cut / Aspiration and Aspiration / Cut for immediate reaction to any changes in surgical situations



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NEW FEATURE

Phaco: Speedier readiness, greater controllability

- $\rightarrow\!70\%$ faster phaco test for speedier surgical preparation without compromising safety
- → Vacuum override function switchable enhancement of the holdability
- \rightarrow Convincing easyPhaco technology for safer and efficient phacoemulsification, fragment followability and holdability thanks to the fluidics concept from Oertli



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NEW FEATURE

User comfort: Even more user-friendly and communicative

- → Acoustic voice confirmations enable focused and autonomous work throughout the surgical procedure
- → Language output in five languages (German, English, French, Italian and Spanish)
- → Acoustic laser protection signals for additional operating safety for the OR team



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UNIQUE FEATURE

Fluidics: Unique 3-pump system

- → Peristaltic, Venturi and SPEEP pump
- → For all applications in vitreoretinal, glaucoma and cataract surgery; immediately and individually controllable via the same cassette
- → Unique SPEEP pump for manual control of the holdability regardless of the type of tissue

THE SURGICAL PLATFORM OS 4

READY FOR THE NEXT GENERATION?

The OS 4 surgical platform utilises the laws of physics with the aim of making ophthalmic surgery even safer, easier and more efficient. The heart of the unit is the 3-pump system with vacuum and flow control and the innovative SPEEP pump, which can control flow and vacuum simultaneously. The Power LED technology with its double light source provides homogeneous illumination and high-resolution contrast viewing. The pneumatically driven Continous Flow Cutter supports low-traction work in the periphery and the fully integrated 532 nm endo laser provides reliable eye protection during treatment.

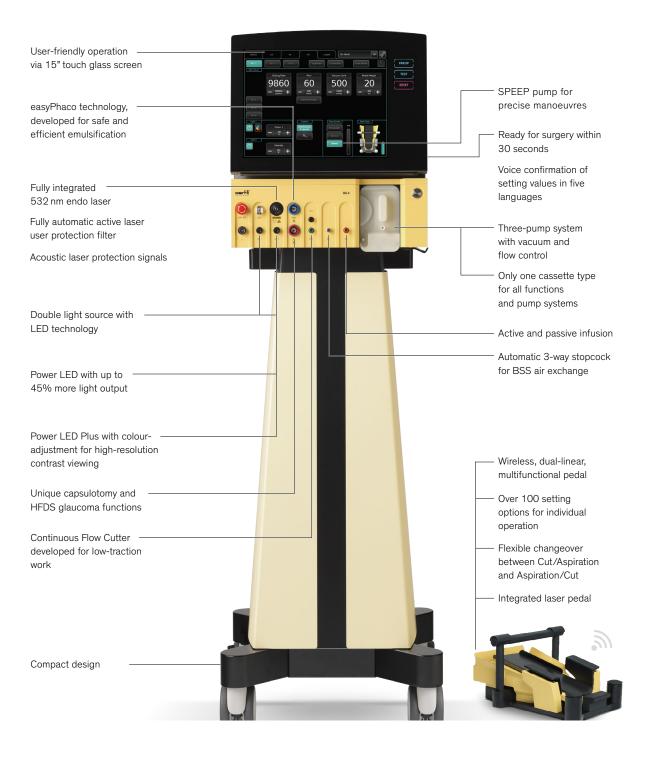
Make the difference – by using Oertli's OS 4.

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Vitrectomy
Glaucoma
Cataract

THE SURGICAL PLATFORM OS 4

OS4™ — ADVANTAGES AT A GLANCE



OS 4"

FLUIDICS SYSTEM

FLUIDICS THANKS TO THE THREE-PUMP SYSTEM



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The heart of the unit is the 3-pump system with vacuum and flow control and the innovative SPEEP pump, which can control flow and vacuum simultaneously. The OS 4 surgical platform thus utilises the laws of physics with the aim of making ophthalmic surgery even safer, easier and more efficient.

Fluidics based on physics

As the inventor of the first dual pump system incorporating the Venturi and the Peristaltic pump in one surgical platform, Oertli established itself early as an innovative leader in the field of fluidics. The OS 4 is just another impressive example of how perfectly Oertli understand its use of fluidics and the laws of physics.

The ground-breaking pump technology, which features vacuum and flow control, forms the very heart of the OS 4. Oertli's 3-pump system does not only include the advantages of a Venturi pump and a Peristaltic pump, but also offers the beneficial features of its exceptional SPEEP pump.

This modulation gives the surgeon independent control over flow and vacuum. Developed so that surgeons can work under reliable conditions with maximum control. The foot pedal not only allows aspiration and release but also gives the surgeon complete control when holding and manipulating fragments and tissue.

Only one cassette is required for all functions and pump systems, which simplifies and speeds up processes. The correct pump system is immediately ready for use. Active and passive infusion can also be freely selected at any time.



SPEEP pump

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 holdability generated right at the tip opening.

*Modulation based on the principle of a Peristaltic pump

The fluidic unit is the heart of the OS 4

OS4"

OPERATION

COMFORTABLY FAST — INTUITIVELY CLEVER

The OS 4 boasts a highly developed surgical technology. This does not mean, however, that the operating platform is difficult to use. On the contrary: everything about the OS 4 is clear and easy. This makes operation comfortable and easy to understand for both OR personnel and the surgeon. The operating platform is ready for start extremely quickly thanks to its own software technology. Following a switch-on time of about 30 seconds, the system is ready for start. This makes changeover between surgeries very short.

Touch glass screen

The no-frills 15-inch touch screen with a high-quality glass front directly leads the eye to the right function. The graphic user interface is simple and surgeon and OR personnel are immediately in focus and master functions intuitive to operate.

Voice confirmations

User-friendly voice confirmation in five individually adjustable languages (English, German, French, Italian, Spanish) enable focused and autonomous work throughout the surgical procedure. The acoustic laser protection signals provide additional operating safety for the entire surgical team.

Instrument table

The optional instrument table (80 \times 35 cm) can be fixed in the desired position. When not needed, the table can be quickly stowed to one side to save space.



MULTIFUNCTIONAL PEDAL

THE POWERFUL PEDAL

The wireless and dual linear foot pedal is the multifunctional control centre of the OS 4. Manufactured from robust metal, the pedal responds precisely and without delay to the surgeon's commands.

Dual linear versatility

In the OS 4 pedal, the dual linear control can be perfectly matched to the surgeon's wishes and needs. The modern multifunctional pedal allows comfortable and independent work while boasting intuitive navigation throughout all surgical steps. Six auxiliary buttons can be assigned to various functions, such as switching between functions or colour settings. Over 100 setting options are available.

Integrated laser pedal

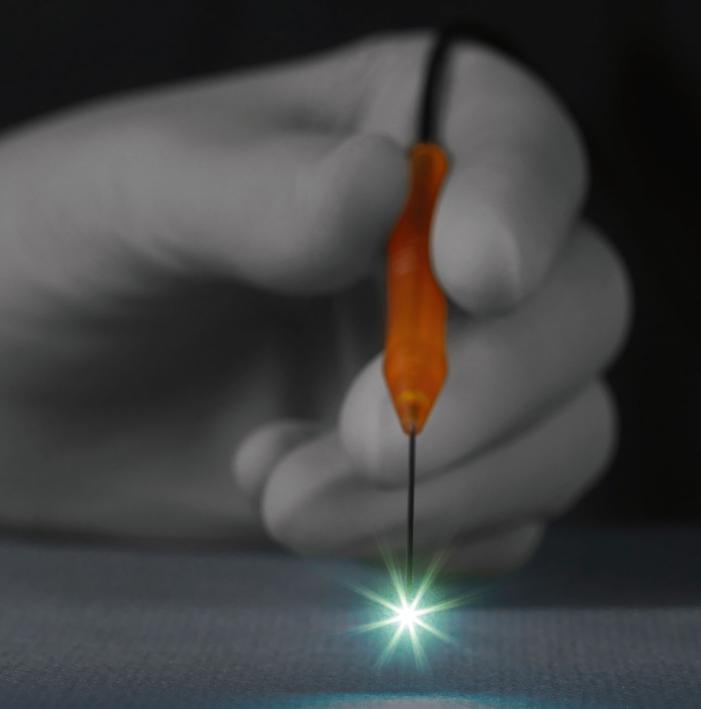
Laser function under perfect control: When using the integrated endo laser, the pedal becomes a true laser pedal – immediately ready for use and controllable without delay.

- → Dual linear multifunctional pedal enables comfortable and independent work
- \rightarrow Wireless communication, pedal can be placed anywhere in the OR
- → Runtime up to 50 hours
- → Laser controllable via the same pedal
- → Individually programmable for up to 50 surgeons
- \rightarrow Over 100 setting options for individual operation for the surgeon
- $\rightarrow\!$ Fast and easy programme and function changes
- \rightarrow Integrated rest position



OS4" 1

OS 4TM IN VITRECTOMY



As a modern all-in-one platform, the OS 4 focuses on functionality and quality in vitreoretinal surgery. The latest Power LED technology with double light source provides homogeneous illumination and a long service life. The Continuous Flow Cutter enables low-traction work and precise portioning of the vitreous body removal. The platform also includes a fully integrated endo laser which can be easily controlled using the multifunctional pedal.

CALIBURN™ TROCAR SYSTEMS

Sharp and precise

In vitrectomy with the OS 4, the Caliburn Trocar System ensures precise work with the sharpest instruments. The lance-shaped blade is distinguished by its high penetration and cutting force. The razor-sharp Caliburn blade reduces the penetration force and leads to an optimal cutting geometry in the sclera. The thin tunnel incision enhances postoperative wound closure.

The trocar with integrated self-sealing membran prevents the leakage of BSS, air and oil, resulting in a constant IOP. With its holdability and optimal shaft length, the Caliburn trocar offers both safety and convenience.

Advantages of the Caliburn™ Trocar Systems

- \rightarrow Postoperative wound closure
- → Easy and smooth insertion of the trocar
- → Integrated, double-slotted sealing membrane for constant IOP during surgery
- → Patented infusion tube with snap lock for better flexibility



OS 4" 17

MORE LIGHT WITH POWER LED

Brighter, more homogeneous and safer

Thanks to the Power LED light source, the light output is up to 45 per cent greater than the previous generations.

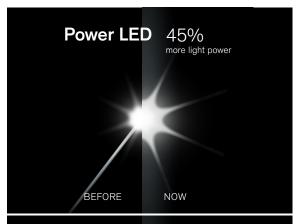
The OS 4 has a double light source that provides homogeneous illumination and high durability thanks to its latest Power LED technology. The wide control range is an ideal combination with 3D microscopes, especially in case of low lumens.

Power LED Plus

The colour spectrum of the second light source, the Power LED Plus, can be individually adjusted. To make even the finest tissue structures visible and to enable high-resolution contrast vision, the colours yellow and blue can be mixed as needed.

Advantages of Power LED

- → Power LED technology with double light source for homogeneous illumination and a long service life
- → Power LED with up to 45% more light output
- → Power LED Plus with free choice of colour, yellow and blue can be mixed as desired on the glass touch screen
- → Increased patient safety due to lower phototoxic stress thanks to lower setting options²
- → Expanded control range at low lumens, ideal combination with 3D microscope
- → Comfort Connector to all endo illuminators







- 1 Compared to the previous generation with 27G and 25G endo illuminators at 100% intensity in lumen
- 2 Compared to the previous generation with 25G endo illuminator panorama at low lumen with 5% intensity, working distance 15 mm



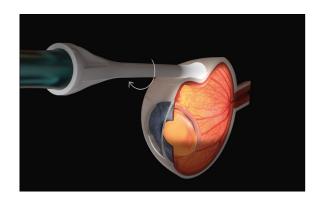
VIPER — ILLUMINATED SCLERAL INDENTOR

Transscleral illumination made easy

The ViPer illuminated scleral indentor from Oertli enables simultaneous indenting and transscleral illumination during interventions in the posterior segment. The ViPer can be attached quickly and easily to the endo illuminator to improve visibility and simplify work in the periphery.

Advantages of the ViPer illuminated scleral indentor

- → Simultaneous indenting and illumination enables autonomous work
- → Improved visualisation of the retinal periphery
- → Glare-free work without backscattered light due to semi-transparent material
- → Uniform illumination of the indented tissue
- → Mobility on the eyeball owing to the smooth surface of the material
- → Suitable for all Oertli endo illuminators





OS 4"

CONTINUOUS FLOW CUTTER

Enjoy low-traction work

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

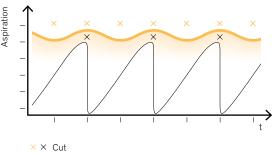
The duty cycle is obsolete because the port is always open. Oertli fluidics uses the physical principle to full advantage. The unique SPEEP pump combines the best properties of the peristaltic and venturi pumps because flow and vacuum can be controlled at the same time. This gives surgeons full control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

Cutting close to the tissue

The minimal distance of 0.17 mm (27G) between the port opening and the surface enables the surgeon to work closely at the tissue, enabling precise manoeuvring at the retina.

Advantages of the Continuous Flow Cutter

- → Full control over aspiration thanks to the unique SPEEP pump ^{2,3}
- \rightarrow 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 control ⁴
- → High-speed cutting using the pneumatic push-pull principle discovered by Oertli



× × Cut

 Oertli Continous Flow Cutter: continuous flow without any noticeable fluctuations. With each cycle, vitreos body is removed twice.

____ Standard Cutter: Flow is interrupted with each cycle.



- 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



ENDO LASER WITH PROTECTION FILTER

Fully integrated and fully automatic

With its new OS 4 generation, Oertli has enhanced laser integration by additional beneficiary functions. The fully automated laser user protection filter enables a reliable eye protection during treatment. The fully automatic insertion of the filter glass before the laser treatment saves the OR team precious time and energy. Since the filter glass is only active during laser treatment, the view always remains clear; there are no wavelengths of light that are filtered out. The acoustic laser protection signals provide additional operating safety for the entire surgical team.



Fully automated laser protection filter provides reliable eye protection



Advantages of the fully integrated endo laser

- →532nm endo laser
- → Fully automated laser protection filter provides reliable eye protection during surgery
- \rightarrow Active monitoring by the laser protection filter
- → Fully automated insertion of the filter glass
- → Laser control integrated into the multifunctional pedal
- → Acoustic laser protection signals for additional operational safety
- → Extensive range of laser probes available

OS4"

GLAUCOMA SURGERY

OS4™ IN GLAUCOMA SURGERY

In the surgical treatment of glaucoma, the OS 4 creates remarkable added value in micro-invasive glaucoma surgery (MIGS). The High Frequency Deep Sclerotomy (HFDS) results in a low complication rate and promising long-term outcomes in spite of the short intervention time.

GLAUCOMA SURGERY



Rapidly applied, long-term success

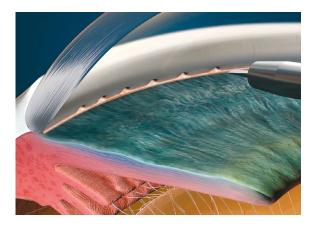
HFDS stands for *High-Frequency Deep Sclerotomy*. In micro-invasive glaucoma surgery (MIGS), HFDS provides direct access from the anterior chamber to the Schlemm's canal and further into the sclera. The outflow resistance of the trabecular meshwork is thus significantly reduced. The HFDS glaucoma tip is inserted through a 1.2-mm paracentesis and uses high-frequency diathermy delivery to place six small sclerotomy pockets in the iridocorneal angle, which provide an improved outflow of the aqueous humour.

HFDS can be used alone but can also be ideally combined with cataract surgery and is distinguished by a very short procedure time. Bleb formation (filtration into the subconjunctival space) is avoided, as is fibroblast migration to the sclerotomy, plus there is no corneal scar. High-frequency deep sclerotomy ab interno from Oertli delivers promising long-term results. If needed, a procedure with HFDS can also be repeated.

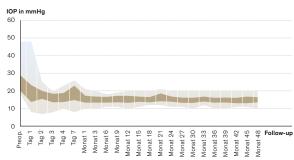
Advantages of HFDS

- ightarrow Implant-free micro-invasive glaucoma surgery $^{\scriptscriptstyle{[20]}}$
- \rightarrow Promising long-term results with a stable and long-term reduction in IOP and AGM $^{\mbox{\tiny [P]}}$
- \rightarrow Short procedure time with high safety profile [2,8,14]
- → Combined with cataract surgery or a stand-alone application





Convincing 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/IJG.0b013e3181dddf31.
- [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, Papelied 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: Manuskript; 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

OS4"

OS 4™ IN CATARACT SURGERY



The OS 4 also demonstrates efficiency and precision in cataract surgery with its easyPhaco technology. HF capsulotomy offers a gentle alternative to capsulorhexis.

HIGH-FREQUENCY CAPSULOTOMY

High-frequency capsulotomy

Since its launch in 1991, high-frequency capsulotomy has proven to be the ideal method for opening the lens capsule in uncountable cases. 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

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



OS 4"

EASYPHACO®

easyPhaco® - Fluidics based on physics

Thanks to the use of the fluidics technology and the precise flow control, easyPhaco enables immediate aspiration of the lens material for perfect followability. The unique design of the tips ensures unmatched chamber stability while simultaneously providing very high holdability. The fragments are aspirated efficiently and without repulsion. The focused axial delivery of the ultrasound energy guarantees 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.

easyPhaco® handpiece

The easyPhaco handpiece offers the surgeon optimised phaco performance* for the entire lifetime of the product as well as greater user comfort.

No compromises for phacoemulsification

The piezo crystals ensure optimised phaco performance* for the entire lifetime of the product.

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®

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



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

IRRIGATION/ASPIRATION HF DIATHERMY

I/A with Safety Design

The Quick Tips with Safety Design feature an extended shaft for improved subincisional access. The small aspiration port results in better occludability and ensures a stable anterior chamber. The well-considered position of the aspiration port is intended to prevent unintended grasping of the capsular bag.

Advantages of I/A with Safety Design

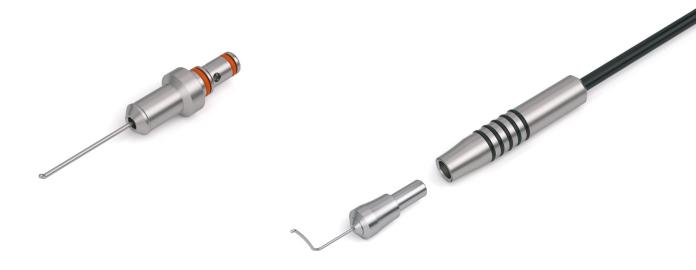
- → Developed to ensure stable anterior chamber conditions
- → Long shaft for subincisional access
- → Rapid occludability
- $\rightarrow\!$ Ideal when combined with the SPEEP pump
- \rightarrow Available from 1.6 mm to 2.8 mm

HF bipolar diathermy

The bipolar diathermy function of the OS 4 offers various application options. These include the unique capsulotomy technique (page 25), the HFDS procedure for MIGS surgery (page 23) as well as the diathermy forceps. Handpieces as well as the easy to attach tips are manufactured from high-quality titanium.

Advantages of HF bipolar diathermy

- → A single function for several applications: Oertli capsulotomy, HFDS, diathermy forceps
- → Fine and controlled dosing of HF energy
- → High-quality titanium handpieces and tips



OS4" 2'

MAKING THE DIFFERENCE WITH SOPHISTICATED DESIGN



≪I have performed vitreoretinal interventions for decades. Oertli devices have always accompanied me reliably from the beginning. Regular maintenance enhances the longevity of the equipment. The OS 4 unites high-tech developments with sophisticated design and utmost user-friendliness. The touchscreen is clearly arranged, and due to the dark background, glare-free. The broad range of setting options offers the desired parameters to every surgeon, no matter whether he / she is a beginner or an expert user. This way, you can learn how to perform surgeries with great safety. ≫

PD Dr. Ulrike StolbaEye Department of the Rudolfstiftung Vienna, Austria

MODULAR DESIGN

OS 4™ - PERFORMANCE SPECTRUM

System

Fluidics system

- → Peristaltic pump
- → Venturi pump
- → SPEEP pump
- \rightarrow Gravity infusion, electric pole drive
- → Active infusion (GFI)
- → Tubing system with integrated closed pressure sensor
- → Auto venting
- → Limitable reflux
- \rightarrow Pre-op, self-test and reset functions

Operation

- → Control panel with 15" touch glass screen
- → Audio signals
- → Extended voice confirmations in five languages

Pedal

- \rightarrow Dual linear multifunction pedal
- → Wireless
- → Integrated laser operation
- → Over 100 setting options
- → Individual programming for 50 surgeons
- → Dual linear or linear
- → Reflux function
- → Rest position

Anterior segment

HF function

- → Capsulotomy
- → HFDS ab interno Micro-Invasive Glaucoma Surgery
- → Conjunctiva coaptation
- \rightarrow Macro diathermy
- → Endo diathermy

Phaco function

- $\rightarrow\!70\%$ shorter phaco tests
- \rightarrow Three program memories with DirectAccess
- → Ultrasound phaco with auto tuning
- → Vacuum Override function
- $\rightarrow\!$ easyPhaco handpiece with six piezo crystals
- \rightarrow Linear, PULSE, BURST and CMP
- \rightarrow easyPhaco, CO-MICS and MICS technology
- → Dual linear phaco
- → Occlusion mode

I/A function

- → Three program memories with DirectAccess
- \rightarrow Continuous irrigation

Anterior segment vitrectomy

- $\rightarrow \text{Three program memories}$
- \rightarrow Dual pneumatic guillotine cutter
- → Linear 10 to 10,000 cuts / min
- → Single incision
- → Irrigation/Aspiration/Cut
- → Irrigation/Cut/Aspiration
- → Flexible changeover between Aspiration/Cut and Cut/Aspiration

Posterior segment

Endo Illumination

- → Two independent Power LED light sources
- \rightarrow Up to 45% more light output
- → Enhanced control range from high to low lumens
- \rightarrow Power LED Plus light source with adjustable colours
- \rightarrow Filter-free output

Vitrectomy

- $\rightarrow \mbox{Three}$ program memories with DirectAccess
- \rightarrow Pneumatically driven Continuous Flow Cutter
- \rightarrow Linear or progressive, 10 to 10,000 cuts / minute
- \rightarrow Single incision
- → Endo phaco

Air

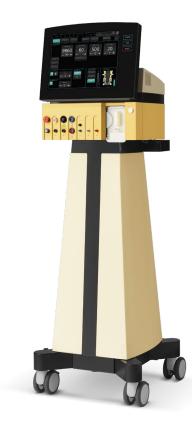
- \rightarrow Fluid / air exchange
- → Fluid / air changeover via pedal
- \rightarrow Constant pressure control with compensation reservoir
- → Three program memories with DirectAccess
- → Alarm function

Visco

- $\rightarrow \text{Injection}$
- \rightarrow Extraction
- \rightarrow Linear pedal control

Endo laser

- → Endo laser 532 nm
- → Fully automated laser user protection filter Acoustic laser protection signals
- \rightarrow Laser power controllable with pedal
- → Laser class: pilot beam 3R, working beam 4





OS4**

OERTLI

MAKING THE DIFFERENCE IN EYE SURGERY

Oertli makes the difference. With surgical devices, instruments, and consumables of high quality, aimed at making the surgical process safer, simpler, and more efficient. With sustainable innovations and new technologies to shape ophthalmology for decades to come. With superb service provision and significant added value for surgeons and OR personnel. And with our continuous striving to achieve the best for our customers, users and patients.

Setting benchmarks

The name Oertli is synonymous with Swiss quality, highest precision and the reliability. We develop and produce our products exclusively at our site in the St Gallen Rhine Valley in Switzerland. Not only does this allow us to rely on expertly trained staff and a dynamic environment, we always have complete control over the quality and properties of our products.

Throughout the history of the company, Oertli has developed many innovations that have shaped eye surgery for the long term. We are not content to rest on our laurels – instead, our successes drive us further. Every day we work hard to maintain our vibrant research spirit and provide our innovative hunger with new avenues to explore.

Although we have an international presence, at heart we remain an independent family-run business with a fighting spirit, deep roots, solid financing and authentic teamwork. Anyone who works at Oertli does so with great commitment and motivation. Because everyone gives their best and applies their whole range of talents, we can successfully position ourselves with confidence. Based on this solid foundation, we make the difference – for eye surgery, for our customers, for patients.







Distribution network

Oertli makes a firm commitment to its site in Berneck, Switzerland. Here is where we generate ideas and develop innovations, where our devices, instruments and consumables are developed and produced. So that our products can be used globally, we rely on our own distribution companies or independent distribution partners depending on the region. In every case, our ophthalmology customers around the world can rely on expert contact partners. They provide excellent service on site, can advise about our entire product range and are perfectly trained in the use of our products.

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OS4"

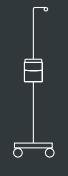




Surgical Platforms







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