

APPLICATION NOTE



Conclusion

With a smart CO-MICS 2 system it is easy to achieve the same efficiency as that to which you are accustomed with 19G surgery – simply increase your vacuum level by 150 mmHg!

The emulsification efficiency and the fluidic properties are all at least as good as those

that you are familiar with in 19G surgery.

Apart from these technical aspects, the smart CO-MICS 2 system exhibits great advantages for the surgeon in his daily business. The advantages of smart CO-MICS 2 are presented in the following reports.

Dr. Detlev R.H. Breyer

Breyer Augenchirurgie, Düsseldorf, Germany

Astigmatism neutral MICS is the pivot of modern phacorefractive cataract surgery with toric, aspheric and multifocal IOL.

CO-MICS 1 was already a great improvement to bimanual MICS due to a lack of leakage problems and better fluidics.

With the CO-MICS 2 tip we now have a phacotip that is as efficient and fast as a conventional phacotip, but does fit through a 1,6 mm incision. A must have in advanced phacorefractive surgery.

Prof. Rupert Menapace

Medical University of Vienna, Austria

By adjusting the design according to physical laws, Oertli has engineered a new CO-MICS tip which fully exploits the potentials: As a result, the smart tip design achieved an astonishing increase in holdability and energy transfer while at the same time providing tight and gentle sealing of the wound tunnel. Thus, phacoemulsification with the new CO-MICS 2 tip through a 1.6 mm incision is equally or even more efficient than with a traditional 19-gauge tip requiring a 2.8 mm incision. With traditional tips, the coaxial inflow tends to push fragments away from the tip. With the smart tip design, the irrigation is essentially confined to the side openings, avoiding anteriorly directed inflow. The key advantage, however, is the inherent reduction of surge upon occlusion break. As a result, very high vacuum settings may be applied which increases power coupling and thus energy transfer at the tip head.

In conclusion, the new CO-MICS 2 tip provides for astonishing phacoemulsification efficiency and chamber stability, and optimally preserves the integrity and self-sealing properties of the wound. Appropriately modified wound designs allow phacoemulsification through wound sizes as small as 1.4 mm, which is below the minimum incision size required for state-of-the-art MICS IOLs.

How to put CO-MICS 2 into practice

CO-MICS 2 works with the standard Hexadisq® (VG800011) hand piece on any Oertli® OS3 or CataRhex® **SwissTech** machine. No modification of the machine or new

software is required. Just set the vacuum limit 150 mmHg higher than usual. Order the following single use sterile machine pack (10 procedures):

VV621111C

Phaco pack for **SwissTech** (tip, sleeve, key, test chamber, tubing set)

VV630111C

Phaco pack for OS3 (tip, sleeve, key, test chamber, cassette)

VV630111CB

Phaco pack for OS3 (tip, sleeve, key, test chamber, cassette, bimanual I/A instruments)

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