

Press Release

Advancing Lenticule Extraction New SCHWIND ATOS® femtosecond laser with SmartSight

Kleinostheim, Germany, September 2019

SCHWIND eye-tech-solutions presents a significantly extended portfolio of applications at the ESCRS Congress 2019 in Paris. The new femtosecond laser SCHWIND ATOS, from the eye laser technology leader for refractive and therapeutic corneal surgery, impresses with advanced minimally invasive lenticule extraction – the SmartSight procedure. Featuring intelligent eye tracking with pupil recognition and cyclotorsion compensation, the pioneering laser system provides precise centring of the patient’s eye along the visual axis. SmartSight is suitable for the treatment of myopia and astigmatism up to five diopters. In addition, SCHWIND ATOS offers high-precision flaps for FemtoLASIK. “With our advanced product portfolio, including excimer and femtosecond laser technology, we now cover the most important all-laser procedures of modern refractive corneal surgery - latest generation minimally invasive lenticule extraction, intrastromal FemtoLASIK and touch-free TransPRK/SmartSurf^{ACE} treatment”, comments CEO Rolf Schwind.

Further advantages: The curved patient interface of SCHWIND ATOS gives an ideal fit with the eye and is ready for use in just two steps. The innovative design with integral filter function eliminates the need for additional tubes and filters. The shape follows the corneal limbus and substantially reduces pressure on the eye during the contacting process.

SCHWIND ATOS is a logical continuation of SCHWIND’s comprehensive expertise in technologies for smooth corneal surfaces. Lenticules and flaps made with the new

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femtosecond laser exhibit high homogeneity and perfect smoothness. As a result, lenticule extraction is very simple, and patient recovery is very fast.

First treatment outcomes by Dr. Rohit Shetty, India, and Prof. Theo Seiler, Switzerland, based on an evaluation of 34 myopic eyes, prove the high predictability and safety of the SmartSight procedure. After lenticule extraction to correct spherical equivalent errors ranging from -2.0 to -8.0 diopters, uncorrected distance visual acuity of treated eyes was equal or better than pre-op corrected distance visual acuity. The quality of the lenticule and incision were evaluated by both surgeons as consistently good. Moreover, visual recovery was very fast: nearly 90 % of eyes achieved visual acuity of 20/20 one day after surgery. Even six months after treatment the refractive outcomes were stable.

The SCHWIND ATOS features trim dimensions and a small footprint. This makes the compact femtosecond laser highly flexible for use in a refractive surgeon's daily routine. With its fast system check, the SCHWIND ATOS is ready for use in a very short time. It can be used alone or in combination with a SCHWIND AMARIS excimer laser.

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