

## Press Release

### Minimally invasive lenticule extraction New SCHWIND ATOS® femtosecond laser with SmartSight

Kleinostheim, Germany, September 2019

SCHWIND eye-tech-solutions presented a significantly extended portfolio of applications at the ESCRS Congress 2019 in Paris. The new femtosecond laser SCHWIND ATOS enables minimally invasive lenticule extraction – the SmartSight procedure. Featuring intelligent eye tracking with pupil recognition and cyclotorsion compensation, the laser system provides precise centring of the patient’s eye along the visual axis. SmartSight is suitable for the treatment of myopia and astigmatism. In addition, SCHWIND ATOS offers precise 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 - minimally invasive lenticule extraction, intrastromal FemtoLASIK and touch-free TransPRK/SmartSurf<sup>ACE</sup> treatment”, comments CEO Rolf Schwind.

Further advantages: The curved patient interface of SCHWIND ATOS gives an excellent 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 reduces pressure on the eye during the contacting process.

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

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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 short time. It can be used alone or in combination with a SCHWIND AMARIS excimer laser.

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