

Press Release

Market launch for the world's highest-performance eye laser Worldwide novelty: SCHWIND AMARIS introduced for the first time at the ESCRS 2007

Kleinostheim, Germany, September 2007

Faster, stronger, more precise: At the ESCRS Congress (European Society of Cataract and Refractive Surgeons) in Stockholm, SCHWIND eye-tech-solutions presents a new excimer laser generation, redefining perfection in refractive corneal surgery. „With the SCHWIND AMARIS, we have developed an all-rounder with unmatched high performance, thereby offering an extraordinarily high level of accuracy and the first and only laser to combine all available state-of-the-art technologies in one system“, says CEO Rolf Schwind.

The „TotalTech Laser“ impresses through a true pulse frequency of 500 Hz and, with two automatically adapted fluence values, ensures perfect ablation control. Depending on the refraction to be corrected, approximately 80 percent of the corneal ablation is performed with a high fluence level, thus speeding up the treatment. Fine correction takes place with a low fluence level, improving the resolution. With this intelligent process, the laser treatment is significantly shortened, especially when higher refractions are corrected, and at the same time carried out with exceptional precision. The correction of one diopter takes on average less than 2.5 seconds with the SCHWIND AMARIS. Thereby, the stroma is preserved through thermally optimized laser pulse distribution.

5 D Eyetracker

An eyetracker must work at a significantly higher frequency than the laser in order to safely allow a very short ablation time. The SCHWIND AMARIS' 1050 Hz turbo eyetracker, with a response time of less than three milliseconds, serves to provide unsurpassed

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precision in the positioning of each laser pulse. The extreme speed and other groundbreaking features, such as rotation balance, limbus tracking and static as well as dynamic cyclotorsion control, ensure exact compensation of every eye movement, on into the fifth dimension.

In addition, the SCHWIND AMARIS continuously measures, with online pachymetry, the corneal thickness during the treatment and allows the doctor to decide at any time how best to proceed with a refractive correction. With the particle aspiration system, developed on the basis of comprehensive flow analysis, energy-reducing particles are efficiently removed during ablation. Unique ergonomic advantages that optimize the treatment process are also included. The laser arm and the patient bed, for example, can be swiveled independently from each other up to 90°. This makes patient preparation and the combination with other medical devices easy and comfortable.

During the ESCRS, participating refractive surgeons have the opportunity to be convinced by the extraordinary proficiency level of the SCHWIND AMARIS in clinical practice: At the SCHWIND Lunch Symposium on the 9th of September, 2007, Maria-Clara Arbelaez, MD, Oman, Ioannis Aslanides, MD, Greece, Carmen Barraquer, MD, Columbia, Francesco Carones, MD, Italy, Tobias Neuhann, MD, Germany and Pavel Roszival, MD, Czech Republic, present the first comprehensive study results and experiences with the new laser.

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