

Press Release

New SCHWIND AMARIS[®] Generation with 750 Hertz Further development and upgrades of the product family ensure technology leadership

Kleinostheim, Germany, September 2010

With the launch of the new SCHWIND AMARIS 750S laser generation at the ESCRS 2010 in Paris, the TotalTech Laser expands its leading position in corneal refractive surgery. The 750S is a further development of the successful SCHWIND AMARIS laser system and impresses with a pulse frequency of 750 Hertz. The most important benefit is the extremely short treatment time combined with unmatched safety features, such as the six-dimensional, active 1050 Hertz eye tracking. One dioptre of myopia is corrected with very high precision in only 1.5 seconds. Thus, the patients only need to focus on the fixation light for a very short time.

Furthermore, SCHWIND presents the new SCHWIND AMARIS 500E laser system. The SCHWIND AMARIS 500E combines a pulse frequency of 500 Hertz with five-dimensional eye tracking and, with its compact, ergonomic and mobile design, constitutes the efficiency line of the SCHWIND AMARIS product family.

Both systems provide the advantages of the unique SCHWIND AMARIS technology proven through numerous scientific publications. The Automatic Fluence Level Adjustment (AFLA) method ensures an ideally balanced ration between the total number of laser pulses and the energy delivered. Through the extremely small spot size of only 0.54 millimetres and the Super-Gaussian beam

profile an exceptionally smooth and tissue saving ablation is achieved. The Intelligent Thermal Effect Control (ITEC) method effectively preserves the cornea, even with very high ablation speed. Studies using an infrared thermographic camera have proven that the corneal tissue only heats up by a maximum of 4° Celsius. The integrated online pachymetry safety system allows precise evaluation of intraoperative ablation parameters during refractive surgery.

Wide treatment spectrum

The 750S and 500E offer not only superior technology, but also a wide range of applications in corneal surgery with the SCHWIND CAM software. SCHWIND has further developed the established surface treatments and has adapted them for the ORK-CAM module. The result is TransPRK (Transepithelial Photorefractive Keratectomy). This is the most advanced method for surface treatments as the epithelium is ablated with the laser. The PresbyMAX module makes it possible to safely and efficiently treat emmetropia, myopia and hyperopia, as well as astigmatism in patients whose accommodative response is limited. In addition, the SCHWIND AMARIS product family demonstrates its competence for therapeutic applications with Pachymetry-Assisted Lamellar Keratoplasty (PALK).

Clinical study with 1,000 eyes

A multitude of clinical studies proves the excellent treatment quality with the SCHWIND AMARIS technology. A current example is a clinical study with 1,000 eyes carried out recently by the worldwide renowned Shinagawa LASIK Center in Tokyo, Japan. The mean preoperative spherical equivalent (SEQ) and astigmatism were -5.10 ± 2.31 D and -1.02 ± 0.85 D. At three month post surgery a mean

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SEQ of 0.14 ± 0.35 D was observed. 82 percent of treated eyes achieved an uncorrected visual acuity of 20/16 or better (97.5 percent: 20/20 or better). Result: LASIK surgery using the SCHWIND AMARIS is very effective and safe for the treatment of low to high myopia with astigmatism.

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