

Vector celebrates its 20th anniversary

■ The key factor in the development of periodontal disease is the presence of periodontal pathogens in the gingival pocket or in the peri-implant sulcus. A central element in the treatment of this disease, for which there are many different causes, is the subgingival removal of biofilm and calculus with simultaneous preservation

of regenerative tissue. For decades, cleaning the periodontal pockets with hand instruments was regarded as the method of choice. This was often associated with great time and effort for the therapist, and the procedure was often painful for the patient. However, over time, an increasing number of dentists concluded that the invasive removal of calculus and inflamed tissue may actually hinder regeneration. This prompted the world of dentistry to seek alternative solutions. Sonic and ultrasonic instruments established themselves as an alternative to the classic hand instruments for gentler cleaning of the root surface without sharp instruments. The purpose was to achieve effective cleaning while preserving regenerative tissue. Depending on the direction of oscil-

lation, conventional sonic and ultrasonic instruments produce vibrations in removing deposits. This leads to irritation and loss of substance on the root surface. The introduction of the Vector principle by Dürr Dental in 1999 represented a real breakthrough and revolutionised periodontal therapy. The high standards of the three

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units available today (Vector Paro with Paro handpiece, Vector Scaler with Scaler handpiece and Vector Paro Pro with both handpieces) are the result of a unique history of development by Dürr Dental as a pioneer in the field of linear vibration deflection both in the past and in the future. Thanks to the 90° deflection of the ultrasonic vibrations, the instruments in the Vector series only move axially parallel to the root surface, which enables vibration-free and minimally invasive treatment. This allows clinically efficient and atraumatic treatment using ultrasonic energy. The linear direction of movement and the large selection of individually shaped instruments make it easier to work even in anatomically difficult-to-access areas. The tooth substance is preserved and the biofilm and hard deposits are removed thoroughly yet more gently than with any other sys-

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by Dürr Dental optimises the polishing and reduces hypersensitivity after the treatment by sealing the dentinal tubules, thus minimising the transmission of stimuli. In recent years, the Vector system has gained a firm place in periodontal maintenance. The unique technology is a reflection of Dürr Dental's system-based approach, evident in all the divisions of the company, in keeping with its motto: "The best, by design". The major anniversary of the Vector system this year not only stands for 20 years of successful periodontal therapy with a unique complete system for subgingival and supragingival applications, it is also a milestone for the further development of the system.

Learn more at www.duerrdental.com or visit the company's booth (Hall 10.1, Booth E030-F039, F030-G039, F040-G041) at IDS. ◀



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