Narrow diameter implants—usually defined as anything under 3.5 mm—boast remarkable inherent promise. In theory, however, they have to be strong enough to survive demanding biomechanical loading and torque—despite their small dimensions—if they are going to live up to that promise.

To provide a safe and predictable clinical solution to NobelActive users, Nobel Biocare has now developed, and extensively tested, a 3.0 mm NobelActive implant that is supposed to meet design and material strength criteria of the highest standards.

The NobelActive 3.0 has been specifically designed for the replacement of single-unit axial incisors as well as mandibular lateral and central incisors. These very visible single-tooth sites require highly aesthetic restorative solutions that can be reliably delivered for the long term.

As there is not much bone to work with in sites like the ones recommended for NobelActive 3.0, maximum bone preservation has been a key priority in engineering aspects of the new design. The apex of this narrow diameter implant is therefore equipped with integral drilling blades, which allow for a smaller initial osteotomy.

In addition to the drilling blades on the tip of the implant, reverse cutting makes it possible for clinicians who are experienced with NobelActive implants to adjust the implant position in order to optimize restorative orientation, which is particularly useful in the extraction sites common in single-tooth anterior restorations.

Dr Scott MacLean of Halifax, Nova Scotia, finds NobelActive 3.0 to be the perfect complement to the earlier, larger diameter NobelActive implants that he has used for years. “The NobelActive 3.0 is a great implant to use in tight, aesthetically demanding areas of the arch. Like the others in the NobelActive family, it provides excellent results due to its principles of design. The platform shift with conical connection maintains a solid, tight connection that is easy to restore. The thread dimensions and design make it the perfect implant for placement in upper lateral and lower incisors, and it feels very familiar to place and restore.”

According to Nobel Biocare, respect for bone as a living tissue is key to all the company’s research and development with Nobel Active 3.0 being no exception. Thanks to its expanding tapered implant body, with double-helix thread design, NobelActive 3.0 compresses bone gradually, minimizing trauma and providing high initial stability even in compromised bone situations.

Built-in platform shifting is also part of the design. This feature provides a very palatable benefit to the patient. It makes it possible for the clinician to ensure maximum soft tissue volume for natural-looking aesthetics. What’s more, an internal conical connection with hexagonal interlocking offers a tight seal and secure positioning of the abutment.

According to Dr Philippe Russe of Reims, France, Nobel Active 3.0 has become his implant of choice for excellent aesthetics in challenging single-tooth anterior situations. “The extra bony volume around the implant supports longer papillae, improving the esthetic outcome of usually difficult cases. With its well-known excellent initial stability platform shifting and conical connection, the new Nobel Active 3.0 has everything you need in a small diameter implant specially designed for narrow anterior spaces.”
Besides classical scaling, the new user-friendly ultrasonic device multipiezo pro from mecron can be used for subgingival debridement as well as for implant cleaning. Paediatric extractions and highly precise preparations of carious teeth are further treatment options, the company said.

With the device, mecron aims to set new standards in the fields of ease of use and hygiene. Compared to commonly used devices, multipiezo pro does not come with buttons or control dials. Its ergonomic touch panel allows fast and intuitive control and can be cleaned as well as disinfected much easier than other devices owing to its smooth surface.

The integration of a revolvable LED-light is supposed to make working with the multipiezo pro easier. The light source can be adjusted right to the spot of activity. The selected handpiece is always shown on the display, while the appendant container is illuminated. The possibility of exchanging the latter quick and easy allows maximum flexibility in changing liquids.

According to the company, the intelligent mecron piezoelectric ultrasound technology will make treatment more comfortable for the dentist as well as the patient. During the therapy, it balances external factors, adjusts the amount of power used automatically, and provides a special soft mode as well as a powerful pulse mode.

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**VECTOR PARO**

Dental teams have been able to achieve the efficient removal of supragingival and subgingival biofilm by using Dürr’s Vector method with its patented linear vibration deflection system for more than a decade. With Vector Paro and Vector Scaler, the company launched two new systems at IDS 2011 in Cologne that are supposed to meet the highest requirements in functional design and ergonomics.

According to the company, various studies have demonstrated the efficiency, gentle action, and painless nature of the Vector principle. The heart of the technology is a ultrasound energy linear vibration protection system in the Paro handpiece. The Vector Paro system has an intuitive base unit control system with a clear capacitive control panel, a long operational time thanks to its large water tank, and a foot pedal for controlling the ultrasound energy (wireless version or version with cable).

In addition, it features an intelligent disinfection and cleaning programme based on Vector Fluid polish that assures biofilm is effectively removed and the recolonisation of bacteria is efficiently controlled. Special instruments made from carbon-fibre reinforced plastic are available for use in periimplantitis treatment, the company said.

The system is enhanced by a scaler handpiece which in combination with periodontal instruments enables the universal use for periodontology, periimplantitis, recall, and professional teeth cleaning.

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**VECTOR PARO**

Periodontal treatment with the Vector Paro
Safe, gentle, and effective periodontal treatment using patented linear vibration deflection • Unique touch-sensitive working method, parallel to the root surface • Ergonomic design
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