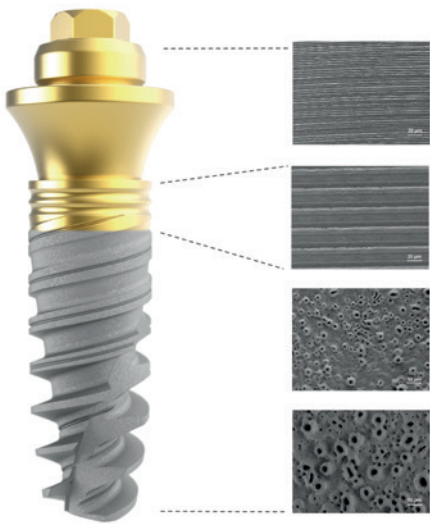


WELCOME TO THE MUCOINTEGRATION ERA: NOBEL BIOCARE LAUNCHES XEAL AND TIULTRA



■ Surface science is taking tissue integration solutions to the next level. In fact, it takes tissue integration to every level. Nobel Biocare introduces the Xeal abutment surface and TiUltra implant surface, derived from decades of applied anodisation expertise. From abutment to implant apex, surface chemistry and topography have been

reimagined to optimise tissue integration at every level. Going beyond the mastery of osseointegration alone, Nobel Biocare has entered the Mucointegration era.

Xeal: The pioneering Mucointegration surface

Dense soft-tissue contact with an abutment can act as a barrier to protect the underlying bone and is the basis for long-term tissue health and stability. Xeal is a pioneering surface for soft-tissue integration that demonstrates a statistically significant increase in soft-tissue height compared with machined abutments. A smooth, non-porous, nanostructured and anodised surface, Xeal possesses surface chemistry and topography that are specially designed to promote soft-tissue attachment.

TiUltra: More than roughness

When it comes to osseointegration, treatment success with implants that have a moderately rough anodised surface is well proven. Now,

Nobel Biocare's extensive expertise in anodisation technology has led to the creation of TiUltra, an ultra-hydrophilic, multi-zone implant surface that goes beyond roughness alone—it grasps the power of chemistry too.

TiUltra's precisely tailored surface chemistry is achieved by anodising the surface with a specific electrolytic solution. This solution enhances the chemical composition of the oxide layer to positively influence the interaction between surface and proteins.

For ideal integration and long-term tissue stability, different tissues demand different surfaces. To meet this need, TiUltra's topography changes gradually from a minimally rough, non-porous and nanostructured collar to a moderately rough and porous apex. Fundamentally, it respects the natural transition from hard, dense cortical bone to spongy, porous cancellous bone to achieve the ultimate goal of both

early osseointegration and long-term bone stability.

Pristine surface from production to placement

The pristine surface chemistry and hydrophilicity of Xeal and TiUltra, achieved with Nobel Biocare's extensive expertise in implant surfaces, are preserved throughout shelf life by a protective layer, which dissolves when in contact with any liquid, such as blood. This layer ensures that the quality of the implant and abutment surfaces is maintained from production to placement—for the ultimate benefit of the patient.



Surface science matters

Nobel Biocare makes no compromise in maintaining an unshakeable focus on deep science behind new solutions. Building on a foundation of nearly two decades of research supporting the success of anodised-surface implants, rigorous science and

testing have been key driving forces behind the creation of Xeal and TiUltra, on a fundamental mission towards long-term treatment success. For new Nobel Biocare solutions, it is scientific scrutiny that really counts.

For an in-depth insight into the evidence supporting Xeal and TiUltra, a dedicated Clinical Implant Dentistry and Related Research supplement will provide a compelling story covering design and in vitro characterisation, behaviour in animal studies, and most notably, the premarket clinical study.

The new Xeal surface is available for the On1 Base and the Multi-unit Abutment. TiUltra is available on Nobel Biocare's best-selling NobelActive and NobelParallel Conical Connection implants. ◀

Nobel Biocare, Switzerland

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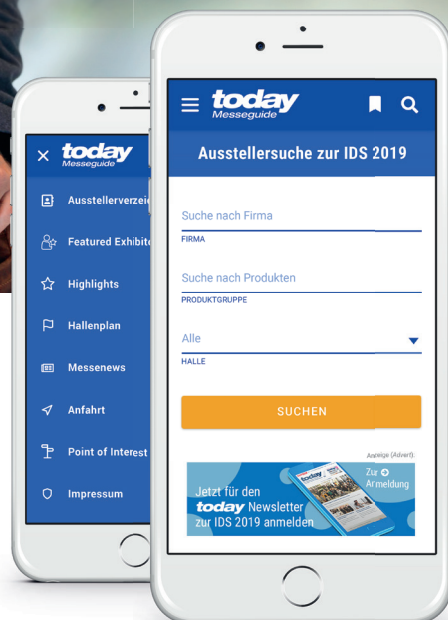
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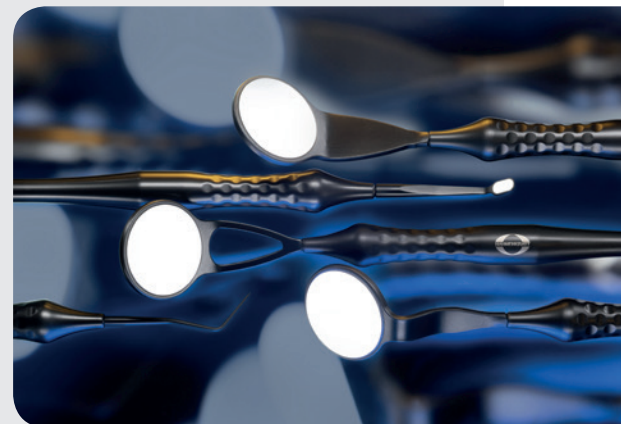
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BLACKLINE BLACKLINE

■ Seit mehr als 80 Jahren ist die E. Hahnenkratt GmbH bekannt für hochwertige Instrumente. Weltweit schätzen Zahnärzte die hohe Qualität von Mundspiegeln und Griffen - 100% made in Königsbach-Stein. Neu zur IDS wird eine BLACKline vorgestellt, die nicht nur für die Endodontie Vorteile im Arbeitsalltag bietet. Durch das matte Finish werden störende Reflexionen eliminiert. Dies ist ein wichtiger Aspekt für die Arbeit unter dem Mikroskop, die in der Endodontie immer mehr an Bedeutung gewinnt. Die extramatte, tief-schwarze Schicht verursacht keine Reflexion. Das Arbeiten bei starkem Licht und unter Vergrößerung wird so wesentlich angenehmer und für die Augen schonender. Die Oberflächenspiegel der MEGA FS Rhodium- und ULTRA FS Bright-Linie erhalten mit einer DLC-Beschichtung (Diamond-like Carbon) ein High-End-Finish. Neu zur IDS werden auch die Microspiegel MICROflex ultra + rhodium mit einer biegbaren Variante vorgestellt. Die MICROflex sind so auch für Aufklappungen in der PA-Behandlung einsetzbar. Die BLACKline verbindet Arbeitskomfort und Ergonomie und bietet in allen Bereichen der Diagnostik Vorteile. ◀

bach-Stein in Germany. A new launch at IDS is the BLACKline, which offers advantages in everyday work and not only for endodontics. The matte finish eliminates disturbing reflections. This is an important aspect for working under



the microscope, which is becoming increasingly important in endodontics. The dark black surface is anti-reflective, therefore working under the microscope light and under magnification is gentler on the eyes. The front surface mirrors of the MEGA FS Rhodium and ULTRA FS Bright line have a diamond-like carbon coating, giving them a high-end finish. Also new are the micro mirrors MICROflex ultra + rhodium with a bendable stem, making them suitable for use in periodontics too, especially for flap openings. The BLACKline combines working comfort and ergonomics and offers superior advantages for all purposes. ◀

■ For more than 80 years, Hahnenkratt has been known for its high-quality instruments. Dentists all over the world appreciate the premium quality of its mouth mirrors and handles—entirely made in Königs-

Hahnenkratt, Germany

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